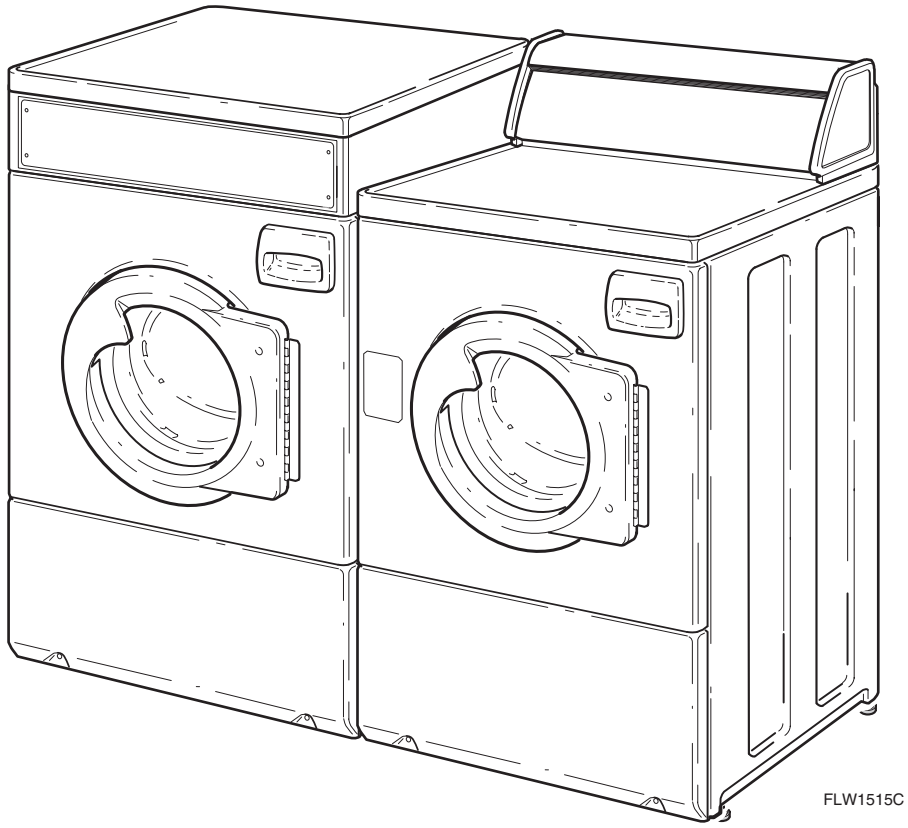
Homestyle Frontload Washers

Service

Refer to Page 2 for Model Numbers



FLW1515C

Alliance Laundry Systems

www.comlaundry.com

Part No. 801726R3
February 2008

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Model Identification

Information in this manual is applicable to these machines:

FTS90A*N
FTS91A*N
FTU90A*N
FTU91A*N
LTS90A*N
LTS95A*N

*** Add Letter To Designate Color. W – White Q – Bisque**

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Section 1
Safety Information

Throughout this manual and on machine decals, you will find precautionary statements ("CAUTION," "WARNING" and "DANGER") followed by specific instructions. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

⚠ DANGER

Danger indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

⚠ WARNING

Warning indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

⚠ CAUTION

Caution indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

IMPORTANT

The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE

The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

In the interest of safety, some general precautions relating to the operation of this machine follow.

WARNING

- **Failure to install, maintain and/or operate this product according to the manufacturer's instructions may result in conditions which can produce serious injury, death and/or property damage.**
- **Do not repair or replace any part of the product or attempt any servicing unless specifically recommended or published in this Service Manual and unless you understand and have the skills to carry out the servicing.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the product is properly grounded and to reduce the risk of fire, electric shock, serious injury or death.**

W006R2

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

WARNING

Repairs that are made to your products by unqualified persons can result in hazards due to improper assembly or adjustments subjecting you or the inexperienced person making such repairs to the risk of serious injury, electrical shock or death.

W007

WARNING

If you or an unqualified person perform service on your product, you must assume the responsibility for any personal injury or property damage which may result. The manufacturer will not be responsible for any injury or property damage arising from improper service and/or service procedures.

W008

NOTE: The WARNINGS and IMPORTANT INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining or operating the washer.

Always contact your dealer, distributor, service agent or the manufacturer about any problems or conditions you do not understand.

Locating an Authorized Servicer

Alliance Laundry Systems is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Alliance Laundry Systems also recommends contacting an authorized technician and using authorized factory parts.

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Section 2
Introduction

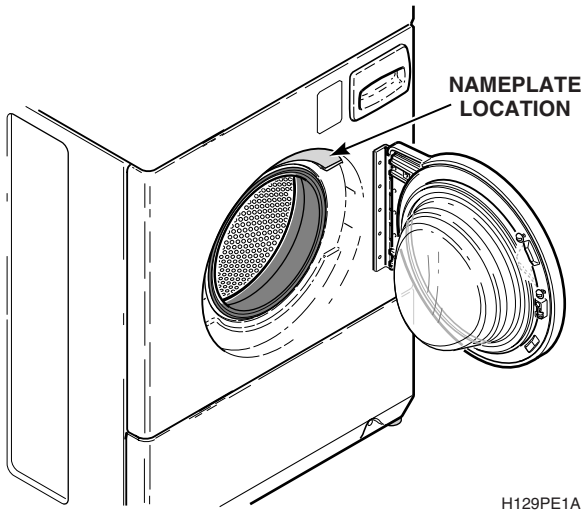
Customer Service

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

For technical assistance, call (920) 748-3121.

Nameplate Location

When calling or writing about your product, be sure to mention model and serial numbers. Model and serial numbers are located on nameplate(s) as shown.



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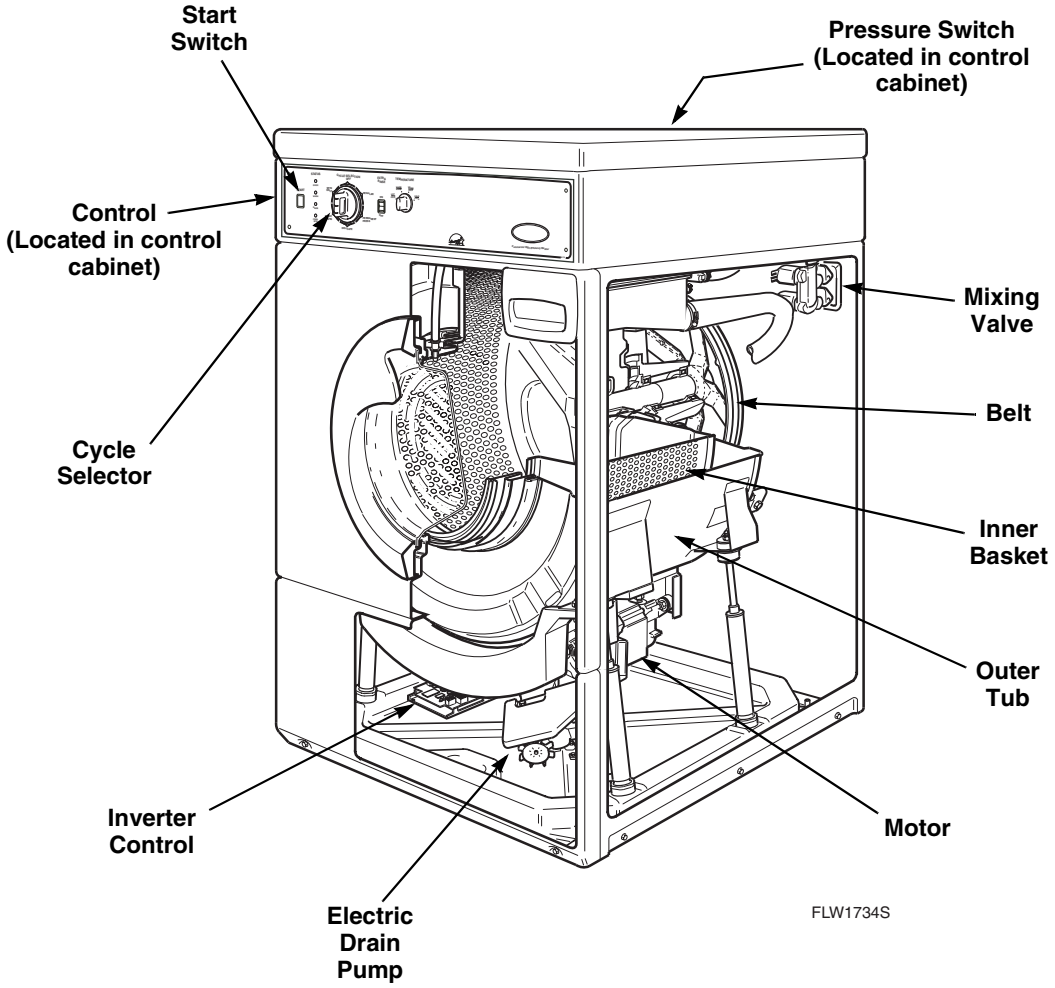
How Your Washer Works

(Front Control Shown)



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General

This frontload washer provides some of the same principles of operation as the typical topload washers. It senses water level, it dispenses the desired laundry detergent, agitates the clothes for good cleaning action, pumps the water out of the washer and spins the clothing in preparation for the dryer.

The difference in operation is primarily the rotational washing agitation created for the horizontal basket and drum. This agitation tumbles the clothes in a clockwise, pause, and counter-clockwise direction. This reversing tumbling action provides an efficient washing process and requires less water.

The cycle begins by pressing the start button, which locks the loading door after the vend is satisfied. The type of cycle and water temperature are determined by the temperature selector switch and the cycle select switch.

The inner basket starts agitating during the wash water fill. A column of air is trapped in a pressure bulb and hose. The air pressure continues to increase as the inner basket fills with water until it is great enough to activate the pressure switch which then causes the wash fill to stop.

The regular and perm press agitate cycle tumble the clothing in a clockwise direction for a period of 15 seconds, pauses for nine seconds and then tumbles the clothing in a counterclockwise direction for 15 seconds. This agitation continues until the wash soak cycle. The machine stops agitating and turns on the pump which removes the wash water.

Upon completion of the wash cycle, the machine goes into two rinse cycles. Fresh cold water is brought into the inner basket via the mixing valve until the pressure switch shuts off the water while agitating. The rinse cycle consists of agitation for a predetermined amount of time, then a spin mode with the pump running while the machine goes into a series of 4 short 500 RPM spins.

After all the rinse cycles have been completed, the washer goes into a final high spin cycle to extract as much water as possible from the clothing to prepare them for the dryer. The spin speeds and duration of this final high spin cycle are determined by the type of wash cycle selected (refer to table).

NOTE: Washer may not reach 1000 RPM because of an out-of balance condition. Control may limit speed to 850, 650 or 500 RPM depending on severity of out-of-balance condition.

	Regular	Perm Press	Delicate
650 RPM	3 minutes	4 minutes	4 minutes
1000 RPM	3 minutes	2 minute	0 minutes

Technical

The basic operational system of this washer consists of the control, temperature switch, inverter control, pressure switch, water valves, electric pump, A.C. motor and cycle select switch.

The control performs all timing functions like the timer in a topload washer.

The inverter control uses a speed sensor on the motor to measure the drum RPM. Before entering any spin step, the inverter control measures the RPM of motor to sense out-of-balance. The inverter control will try to redistribute the clothes if an out-of-balance condition exists; the inverter control will limit the spin speed to several speeds depending on the severity of the out-of-balance condition. If the out-of-balance condition is severe enough, the inverter control will limit speed to 90 RPM and will not spin.

NOTE: An additional out-of-balance switch is used to detect any out-of-balance condition during spins. If this switch opens during a spin step, the inverter control immediately stops and then restarts the spin.

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Notes

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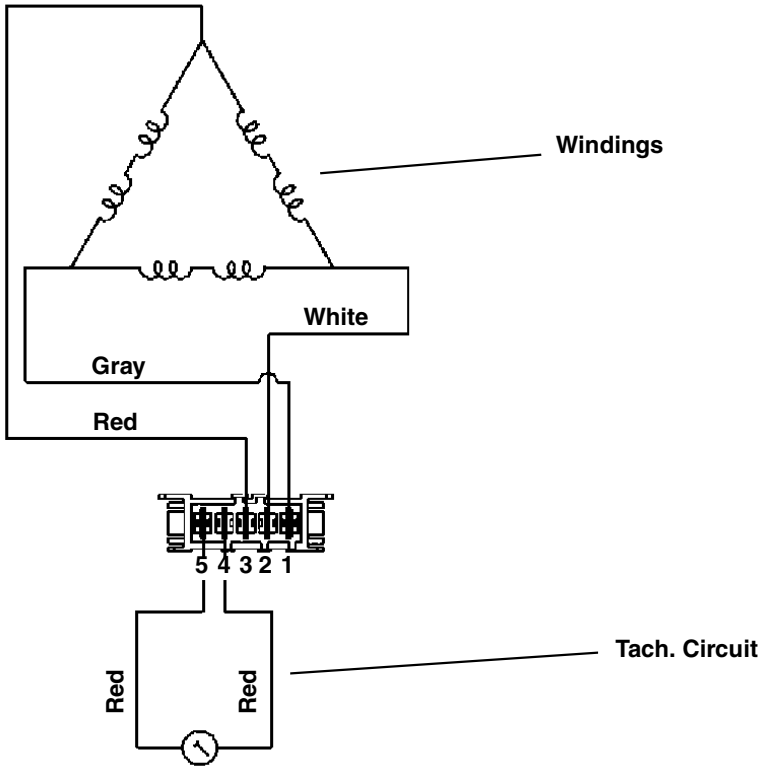
Section 3
Troubleshooting

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

1. MOTOR CIRCUIT



Resistance Values:

Tachometer Circuit:
Terminals 4–5
Approx. **115** ohms

Windings:

Terminals 1–2, 2–3, 1-3
Approx. **4.5** ohms

2. TROUBLESHOOTING KNOCKING NOISE

If a frontload washer produces a noise similar to a knock on a door, it might be due to a flat spot on the belt. The knocking sound is made when the flat spot hits the pulley. The knocking may occur during a pulse spin and fade after reaching a higher RPM.

To correct this condition, replace the belt. Refer to *Paragraph 31*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

3. ERROR CODE LISTING

Error Conditions

If any of the following errors occur, the control enters Error Mode. For all fatal errors, the control will terminate the current cycle, turn off all outputs, and flash two LEDs one second on/one second off to indicate the error.

Motor Failure Error.	If the control receives the motor failure signal from the motor control, the control will enter Error Mode. The control will turn off all outputs and flash the DOOR and FINAL SPIN LEDs one second on/one second off to indicate a motor failure error. This is a fatal error. The machine must be unpowered to clear this error.
Fill Error.	If the control receives no full input from the pressure switch indicating the cylinder is full within 30 minutes of starting the fill, the control will enter Error Mode. The control will turn off all outputs and flash the WASH and DOOR LEDs one second on/one second off to indicate a fill error. This is a fatal error. The machine must be unpowered to clear this error.
Door Open Error.	If the control senses the door open during Run Mode, the control will enter Error Mode. The control will turn off all outputs and flash the WASH and RINSE LEDs one second on/one second off to indicate a door open error. This is a fatal error. The machine must be unpowered to clear this error.
Door Lock/Unlock Error.	If the door doesn't lock in 15 seconds in Door Locking Mode or the door doesn't unlock in 3 minutes in Door Unlocking Mode, the control will enter Door Lock Error Mode. The control will turn off all outputs and flash the DOOR LED one second on/one second off to indicate a door lock/unlock error. To clear this error in Door Locked Mode the door must either open or lock. If the door locks, the cycle will start normally. If the door opens, the control will revert back to Start Mode. To clear this error in Door Unlocking Mode the door must unlock or open. If the door unlocks or opens, the control will enter End of Cycle Mode.
SPI Communications Error.	This error occurs when there is a problem with communications between the front-end control and the motor control. The control will turn off all outputs and flash the FINAL SPIN and RINSE LEDs one second on/one second off to indicate an SPI communications error. This is a fatal error. The machine must be powered down at this point.
Open/Shorted Temperature Sensor Error (Models equipped with heater)	Any time the control senses a temperature less than 32°F (0°C) or greater than 212°F (100°C) while heating, the control will turn off the heater output and not attempt to heat. The control will continue and finish the cycle normally. At the end of the cycle the control will flash the HEATING LED one-second on/one second off to indicate an open/shorted temperature sensor error. This error will be cleared when the door is opened at the end of the cycle.

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Notes

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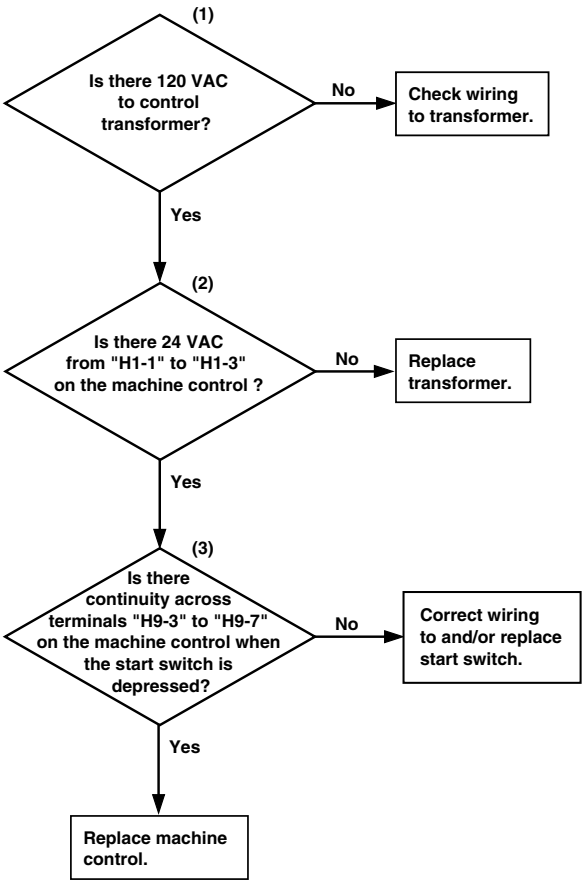
4. WASHER WILL NOT START – NO LEDS/LIGHTS LIT (NO RESPONSE TO START SWITCH)



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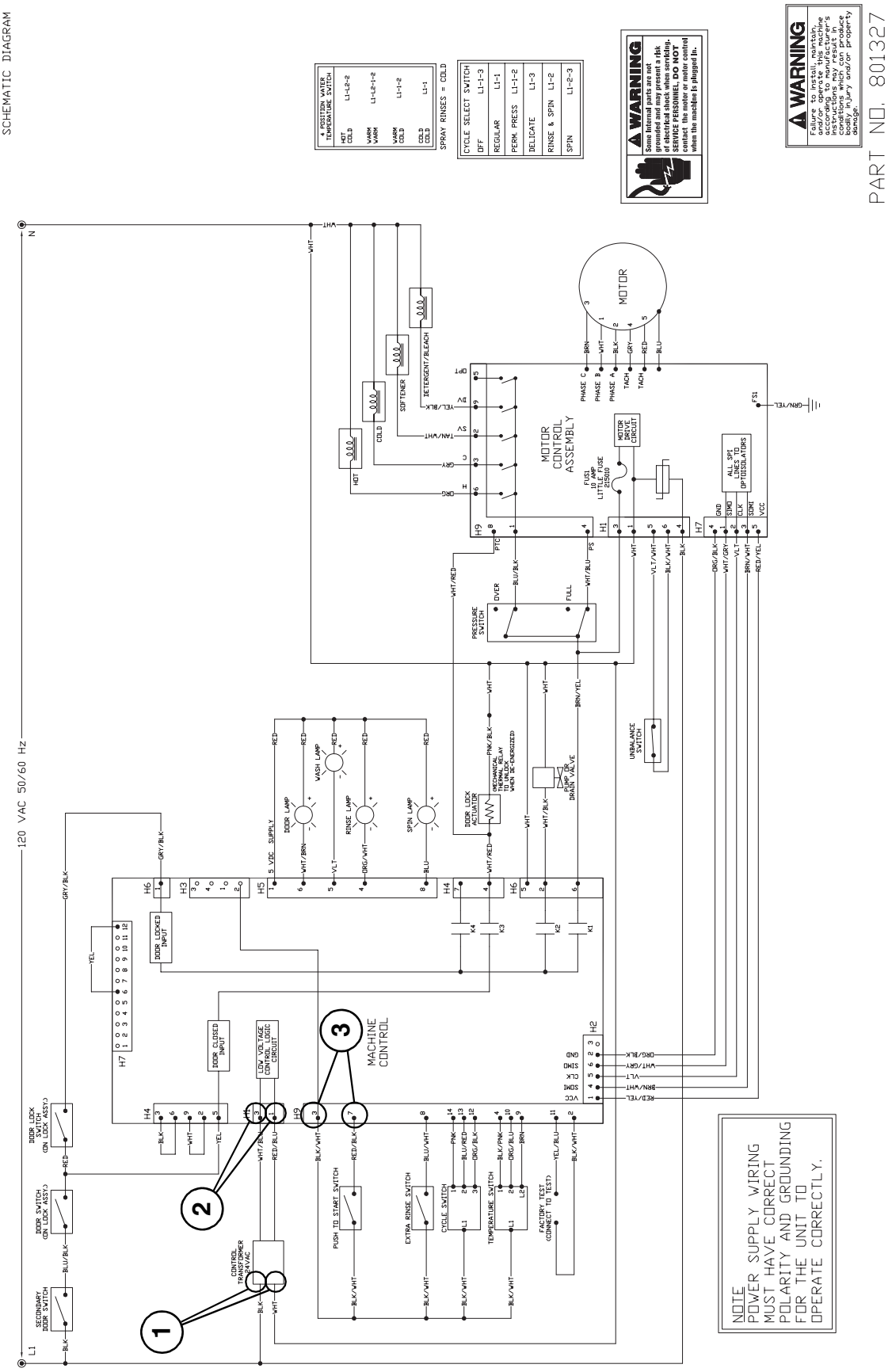
WASHER WILL NOT START – NO LEDS/LIGHTS LIT (NO RESPONSE TO START SWITCH)



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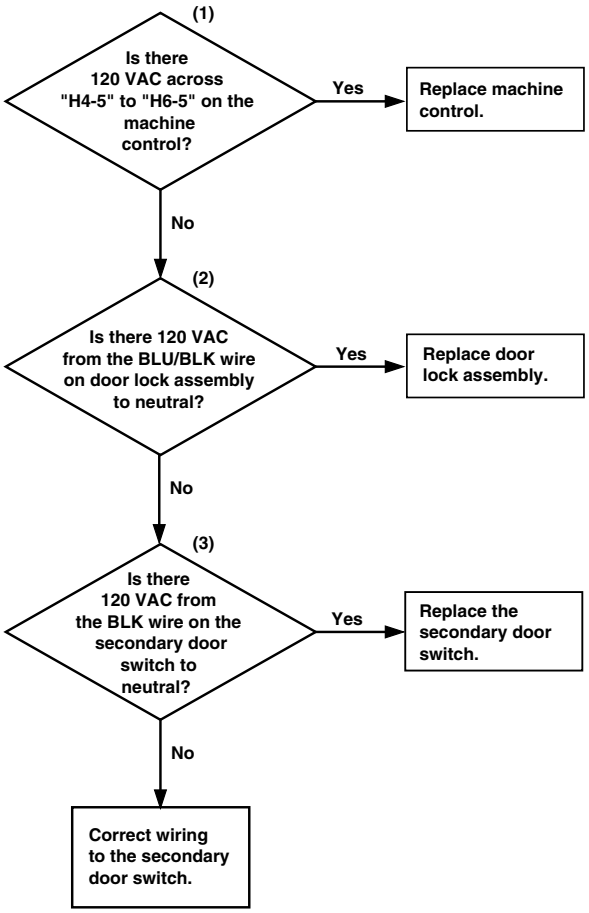
5. WASHER WILL NOT START – DOOR OPEN ERROR (WASH/RINSE LEDS FLASHING – DOOR MUST BE CLOSED AND ATTEMPTING TO LOCK)


(1)
Is there 120 VAC across "H4-5" to "H6-5" on the machine control?
Yes
Replace machine control.
No
(2)
Is there 120 VAC from the BLU/BLK wire on door lock assembly to neutral?
Yes
Replace door lock assembly.
No
(3)
Is there 120 VAC from the BLK wire on the secondary door switch to neutral?
Yes
Replace the secondary door switch.
No
Correct wiring to the secondary door switch.

FLW1721S

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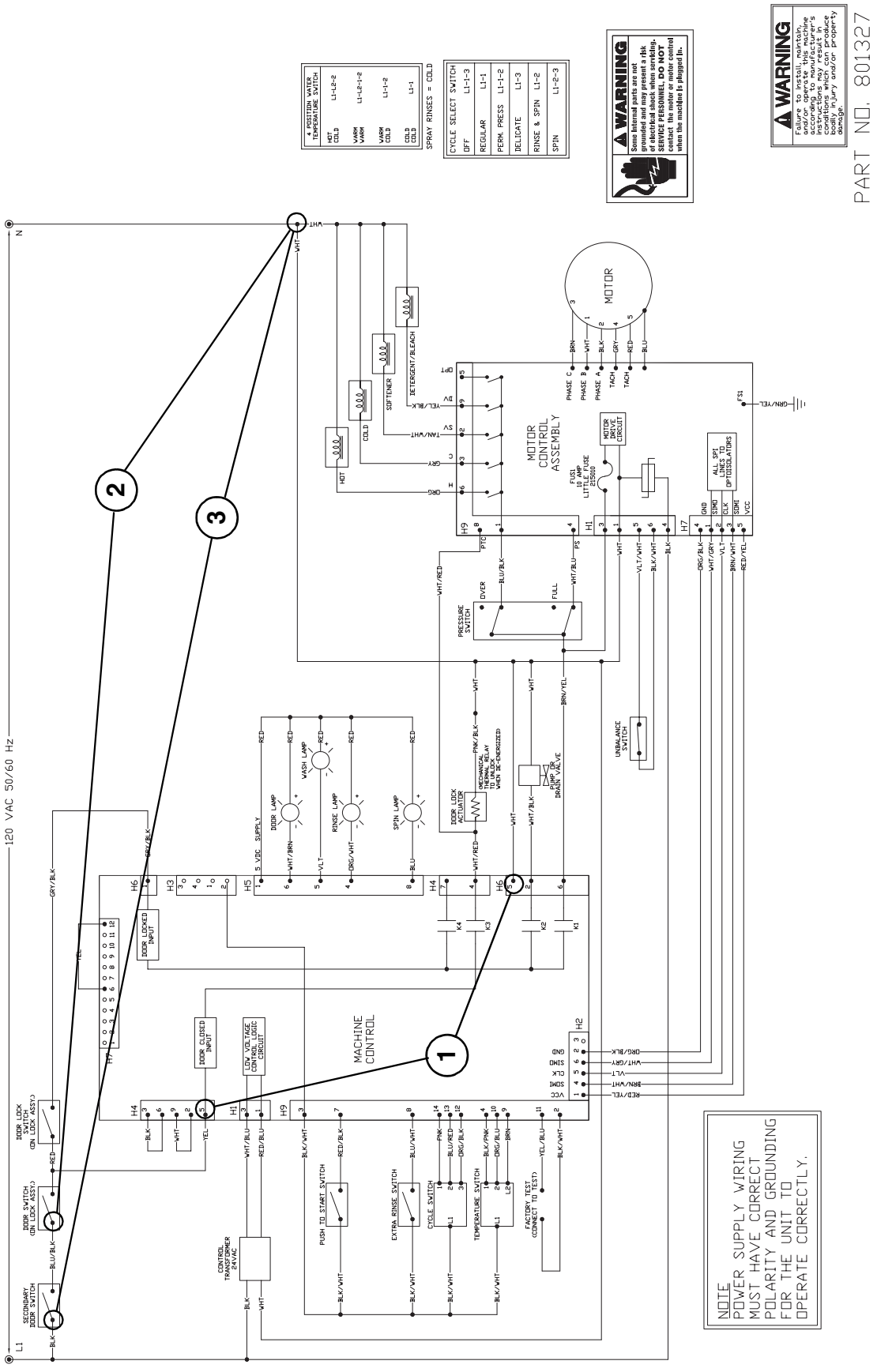
WASHER WILL NOT START – DOOR OPEN ERROR
(WASH/RINSE LEDS FLASHING – DOOR MUST BE CLOSED AND ATTEMPTING TO LOCK)



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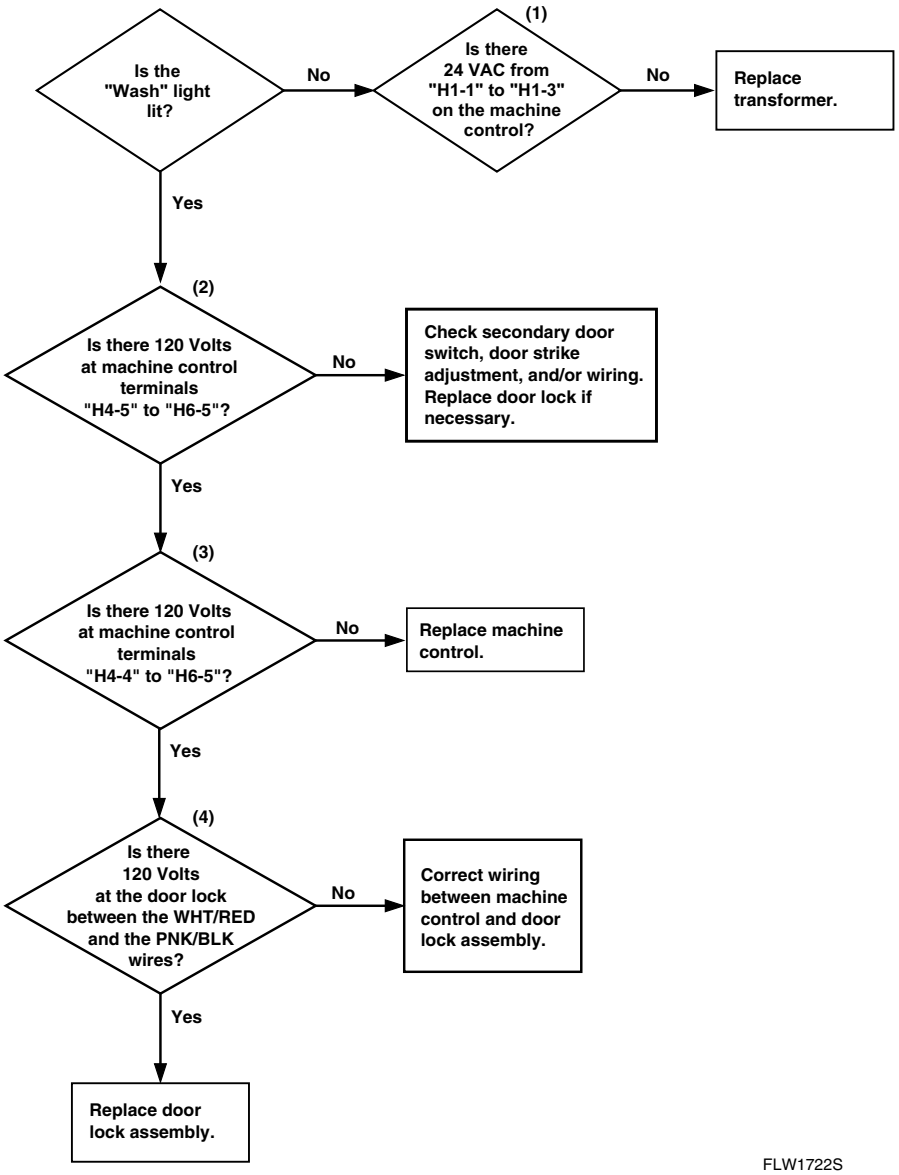
6. WASHER WILL NOT START – NO DOOR LOCK (DOOR LED FLASHING)


Is the "Wash" light lit?
No
(1)
Is there 24 VAC from "H1-1" to "H1-3" on the machine control?
No
Replace transformer.
Yes
(2)
Is there 120 Volts at machine control terminals "H4-5" to "H6-5"?
No
Check secondary door switch, door strike adjustment, and/or wiring. Replace door lock if necessary.
Yes
(3)
Is there 120 Volts at machine control terminals "H4-4" to "H6-5"?
No
Replace machine control.
Yes
(4)
Is there 120 Volts at the door lock between the WHT/RED and the PNK/BLK wires?
No
Correct wiring between machine control and door lock assembly.
Yes
Replace door lock assembly.
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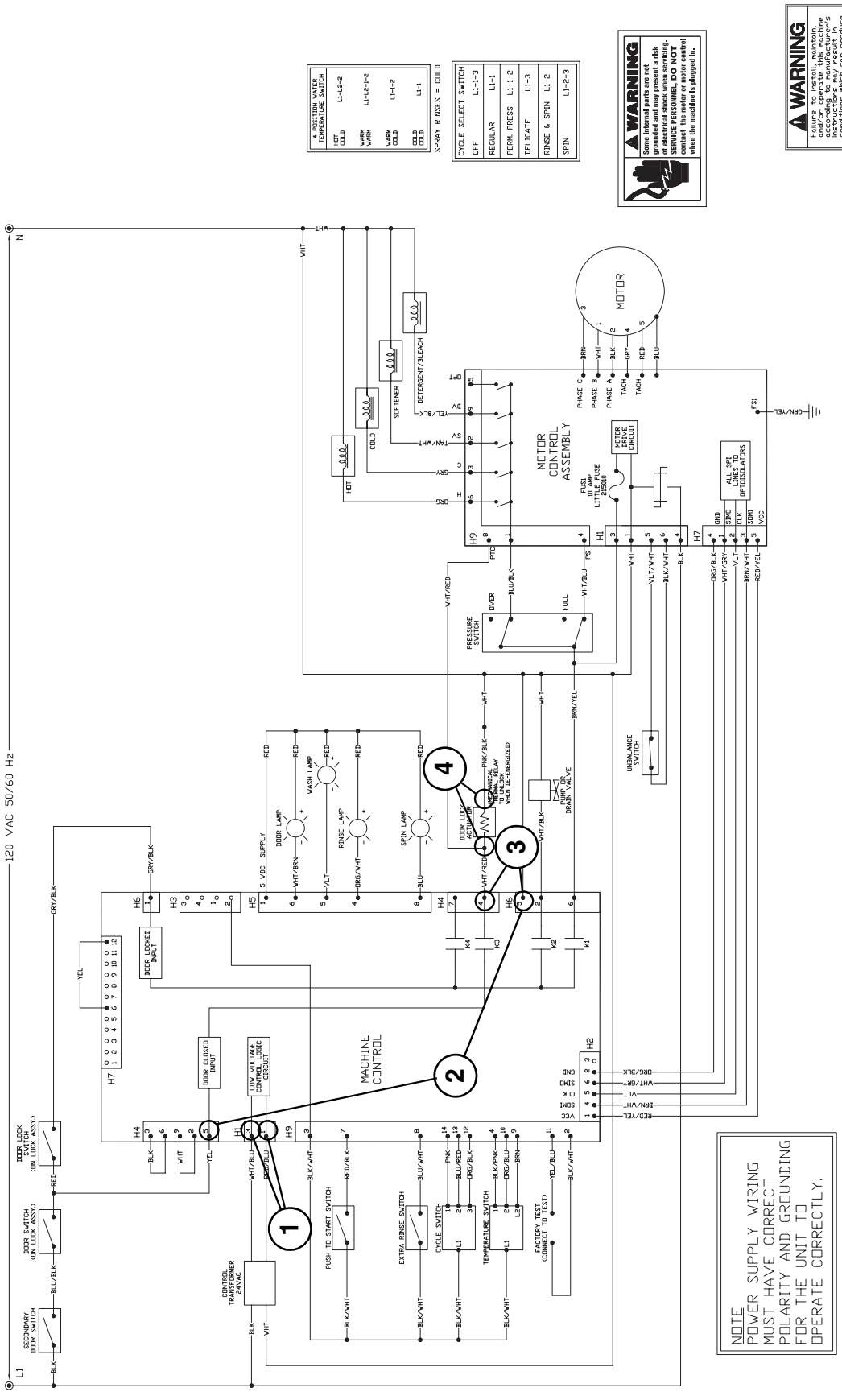
WASHER WILL NOT START – NO DOOR LOCK (DOOR LED FLASHING)



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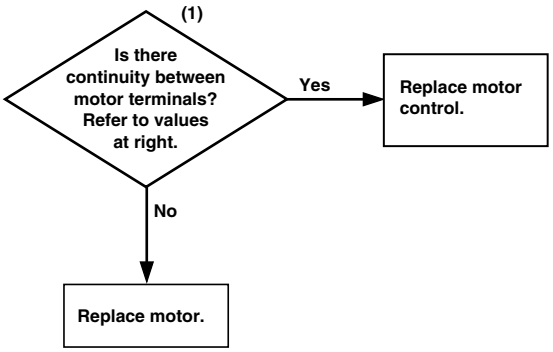
7. MOTOR WILL NOT RUN (DOOR/FINAL SPIN LEDS FLASHING)



Motor Resistance Values:
Tach. Circuit: Approx. 115 ohms (Terminals 4-5)
Windings: Approx. 4 - 5 ohms (Terminals 1-2, 1-3, 2-3)

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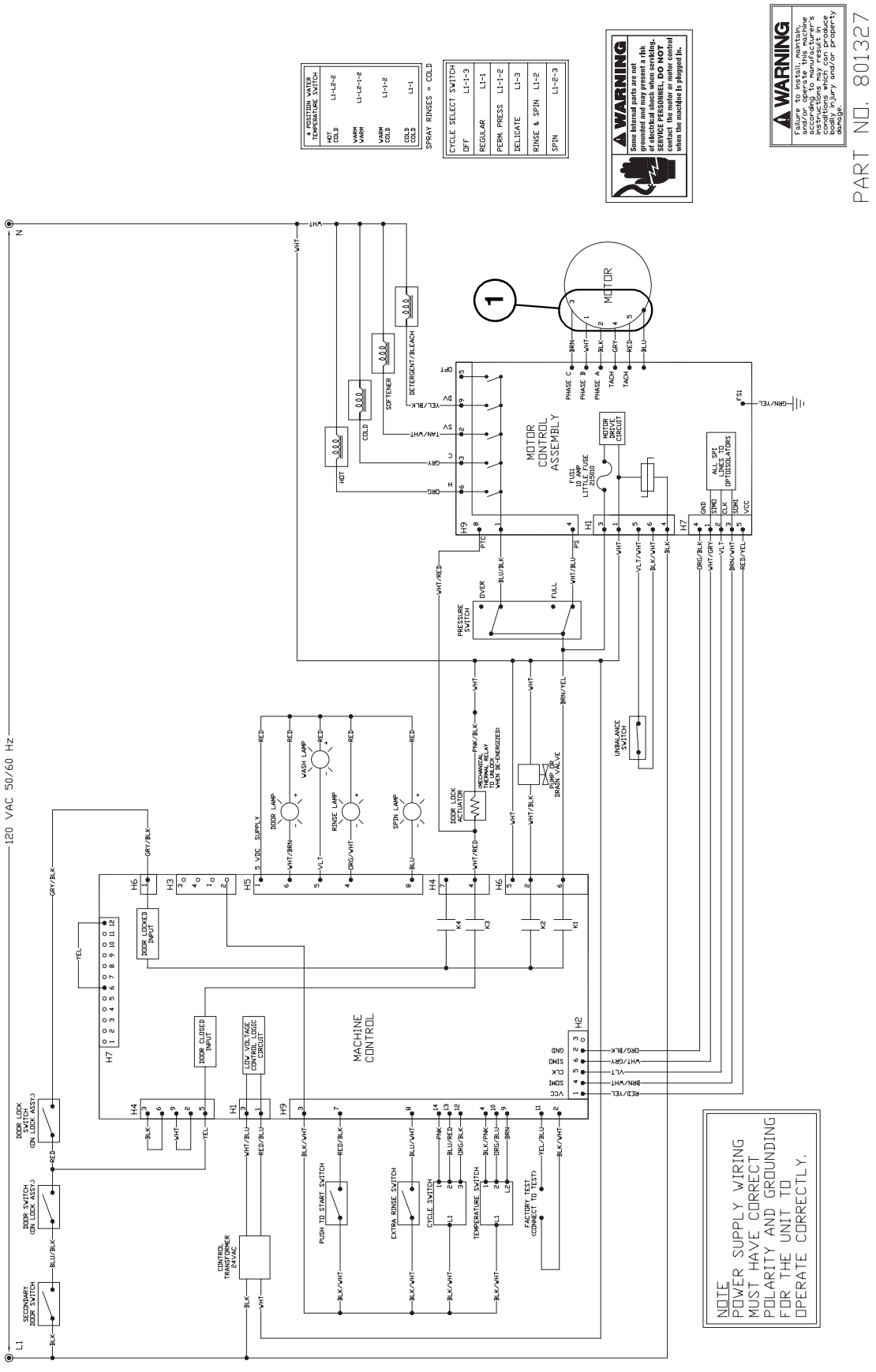
MOTOR WILL NOT RUN
(DOOR/FINAL SPIN LEDS FLASHING)



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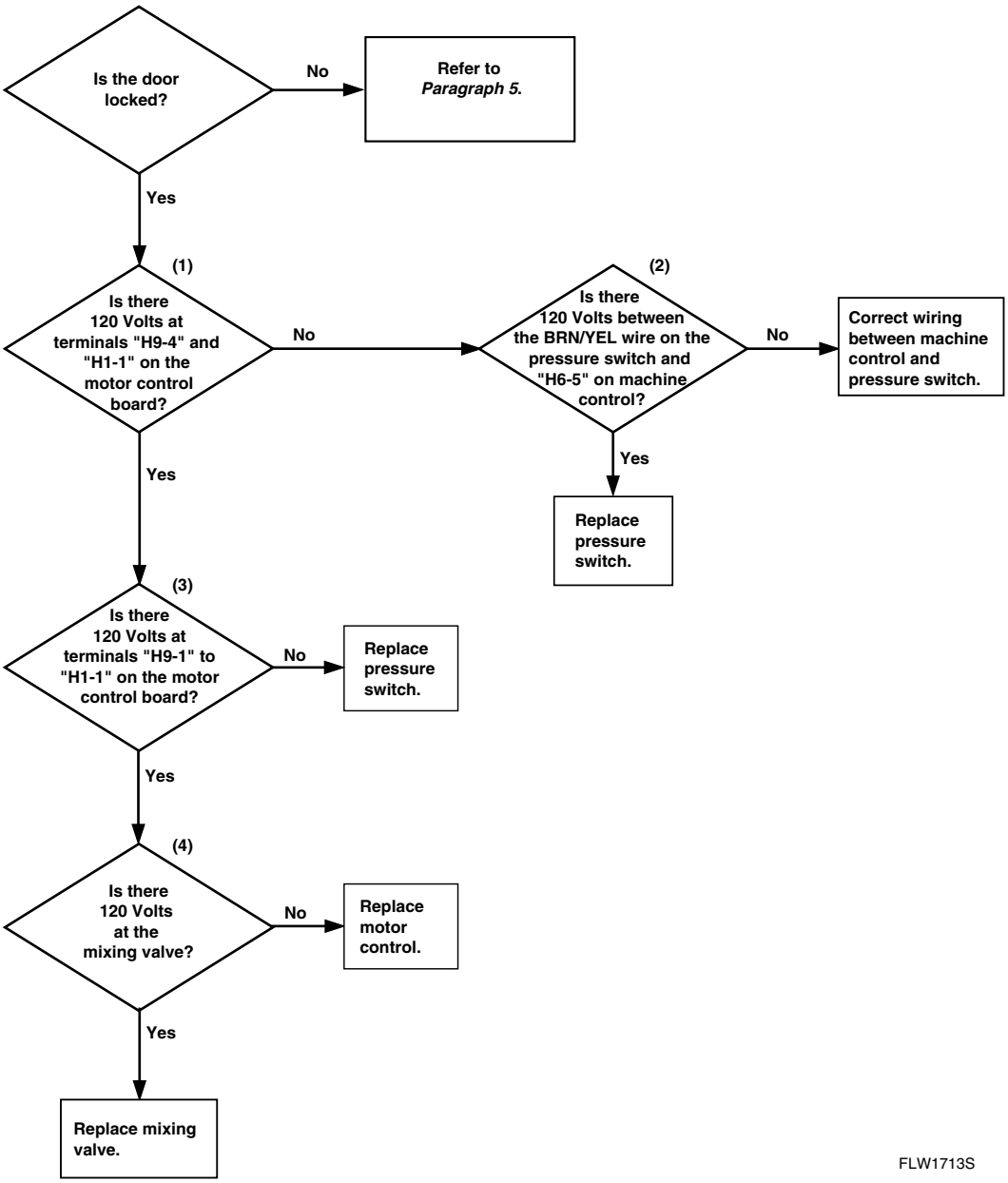
8. WASHER WILL NOT FILL – NO COMMUNICATION ERROR (WASH/DOOR LEDS FLASHING)



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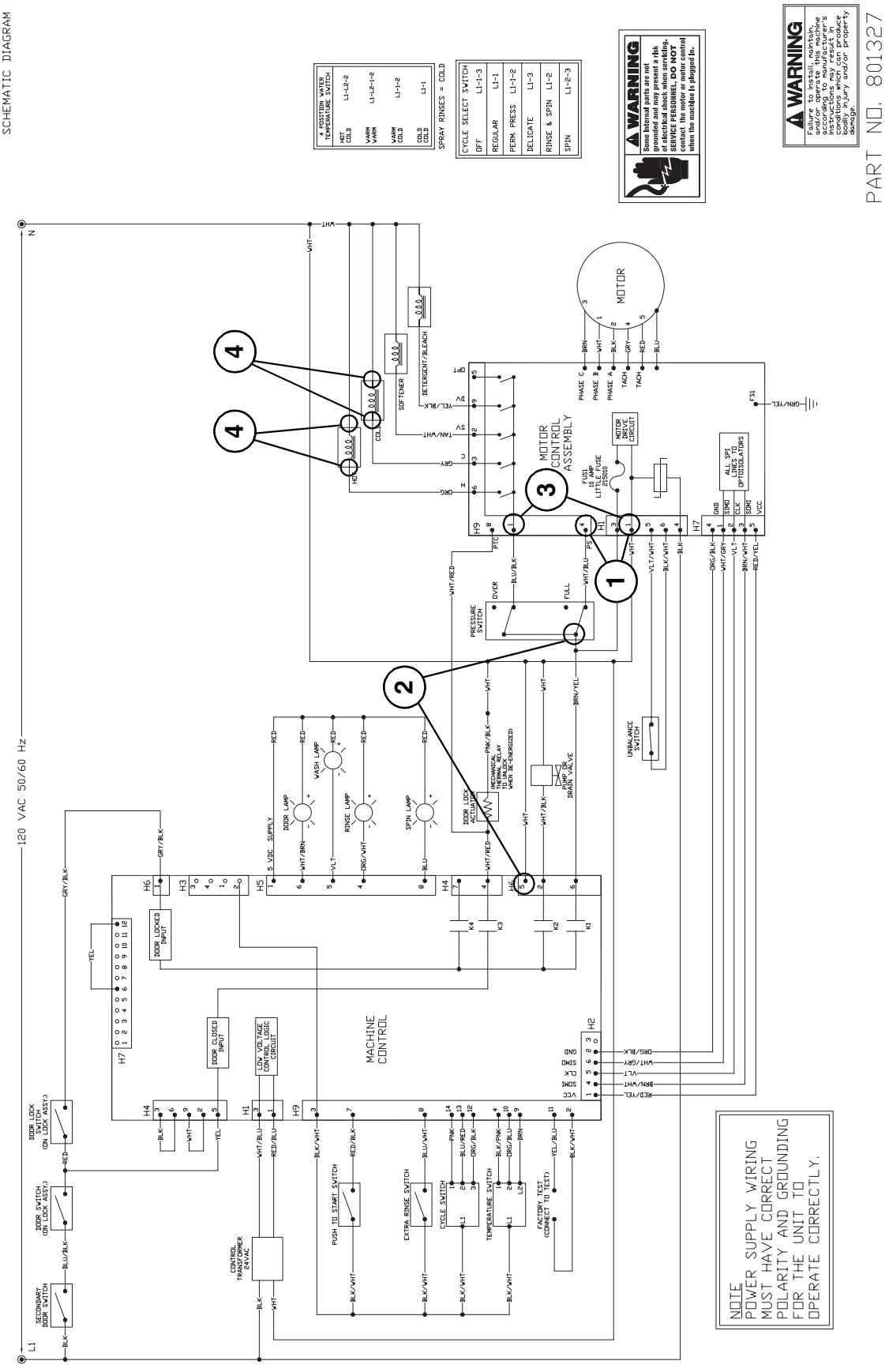
WASHER WILL NOT FILL – NO COMMUNICATION ERROR (WASH/DOOR LEDS FLASHING)



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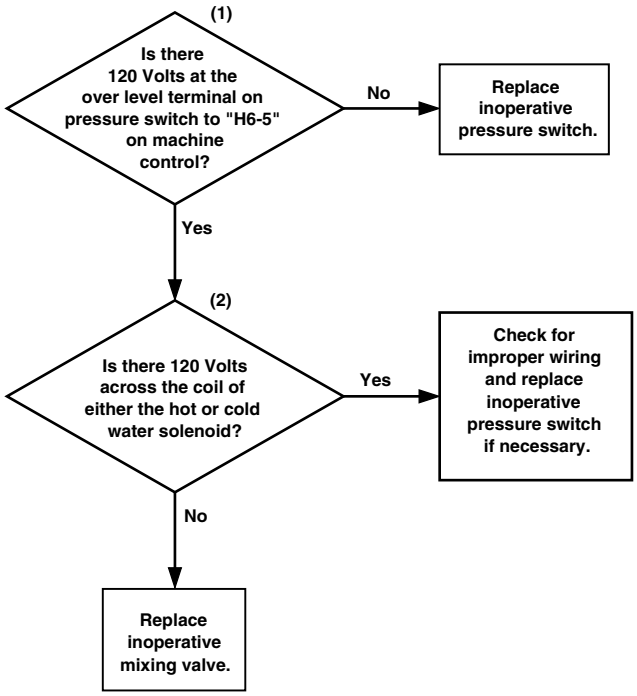
9. WASHER OVERFLOWS


(1)
Is there 120 Volts at the over level terminal on pressure switch to "H6-5" on machine control?
No
Replace inoperative pressure switch.
Yes
(2)
Is there 120 Volts across the coil of either the hot or cold water solenoid?
Yes
Check for improper wiring and replace inoperative pressure switch if necessary.
No
Replace inoperative mixing valve.

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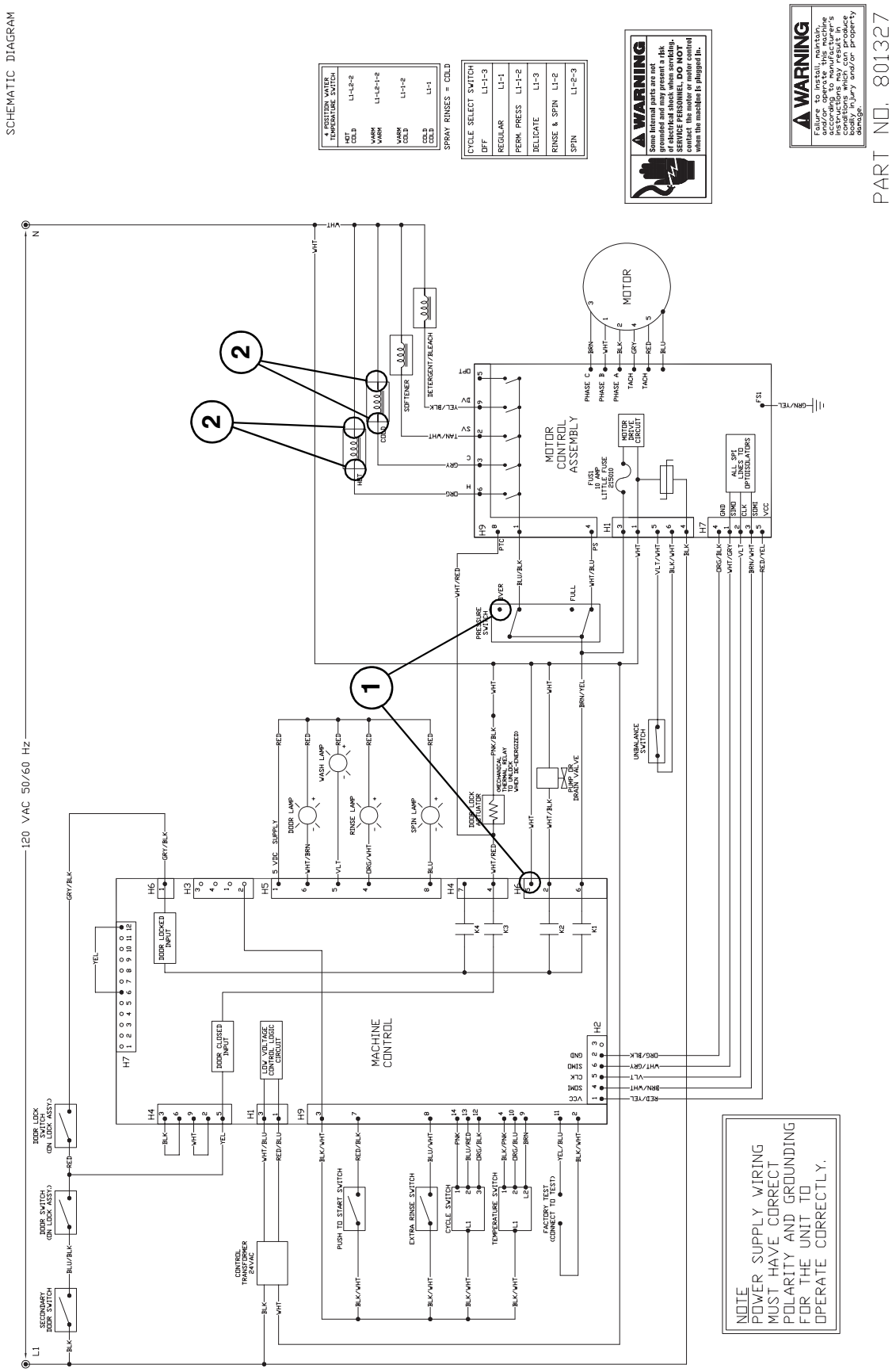
WASHER OVERFLOWS


SCHEMATIC DIAGRAM
PART NO. 801327
WARNING
Some internal parts are not grounded and may present a risk of electrical shock when servicing. SERVICE PERSONNEL: DO NOT contact the motor or motor control when the machine is plugged in.
WARNING
Failure to install, maintain, and/or operate this machine according to manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.
4 POSITION WATER TEMPERATURE SWITCH
HOT L1-L2-2
COLD
WARM L1-L2-1-2
WARM
COLD L1-1-2
COLD L1-1
SPRAY RINSES = COLD
CYCLE SELECT SWITCH
OFF L1-1-3
REGULAR L1-1
PERM PRESS L1-1-2
DELICATE L1-3
RINSE & SPIN L1-2
SPIN L1-2-3
120 VAC 50/60 Hz
MOTOR
MOTOR CONTROL ASSEMBLY
MACHINE CONTROL
DOOR LOCK SWITCH (ON LOCK ASSY)
DOOR SWITCH (ON LOCK ASSY)
SECONDARY DOOR SWITCH
DOOR LOCKED INPUT
DOOR CLOSED INPUT
LOW VOLTAGE CONTROL LOGIC CIRCUIT
CONTROL TRANSFORMER 24VAC
DOOR LAMP
WASH LAMP
RINSE LAMP
SPIN LAMP
5 VDC SUPPLY
DOOR LOCK ACTUATOR
MECHANICAL THERMAL RELAY TO LOCK DOOR WHEN DE-ENERGIZED
PUMP OR DRAIN VALVE
PRESSURE SWITCH
UNBALANCE SWITCH
PUSH TO START SWITCH
EXTRA RINSE SWITCH
CYCLE SWITCH
TEMPERATURE SWITCH
FACTORY TEST (CONNECT TO TEST)
DETERGENT/BLEACH
SOFTENER
MOTOR BRAKE CIRCUIT
T1.6A 10 AMP LITTLE FUSE 251010
ALL SPT LINES TO OPTOISOLATORS
NOTE
POWER SUPPLY WIRING MUST HAVE CORRECT POLARITY AND GROUNDING FOR THE UNIT TO OPERATE CORRECTLY.

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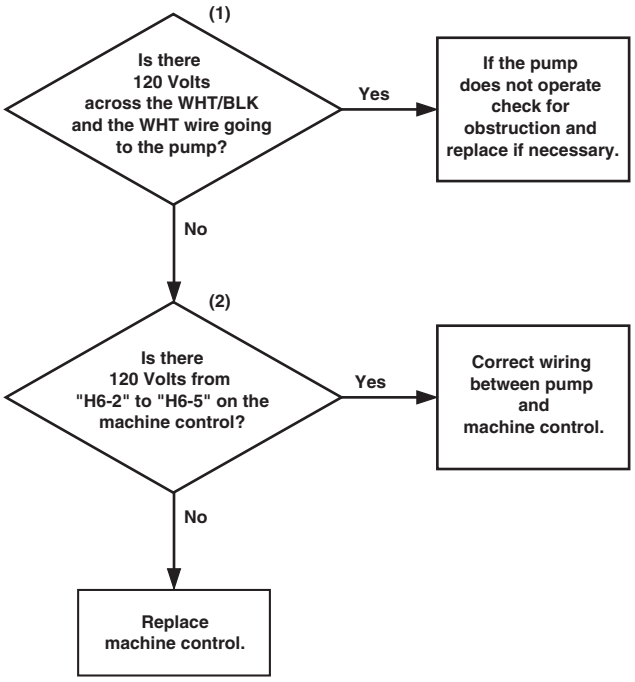
10. PUMP DOES NOT OPERATE

NOTE: Check at beginning of spin/drain portion of cycle.


(1)
Is there 120 Volts across the WHT/BLK and the WHT wire going to the pump?
Yes
If the pump does not operate check for obstruction and replace if necessary.
No
(2)
Is there 120 Volts from "H6-2" to "H6-5" on the machine control?
Yes
Correct wiring between pump and machine control.
No
Replace machine control.

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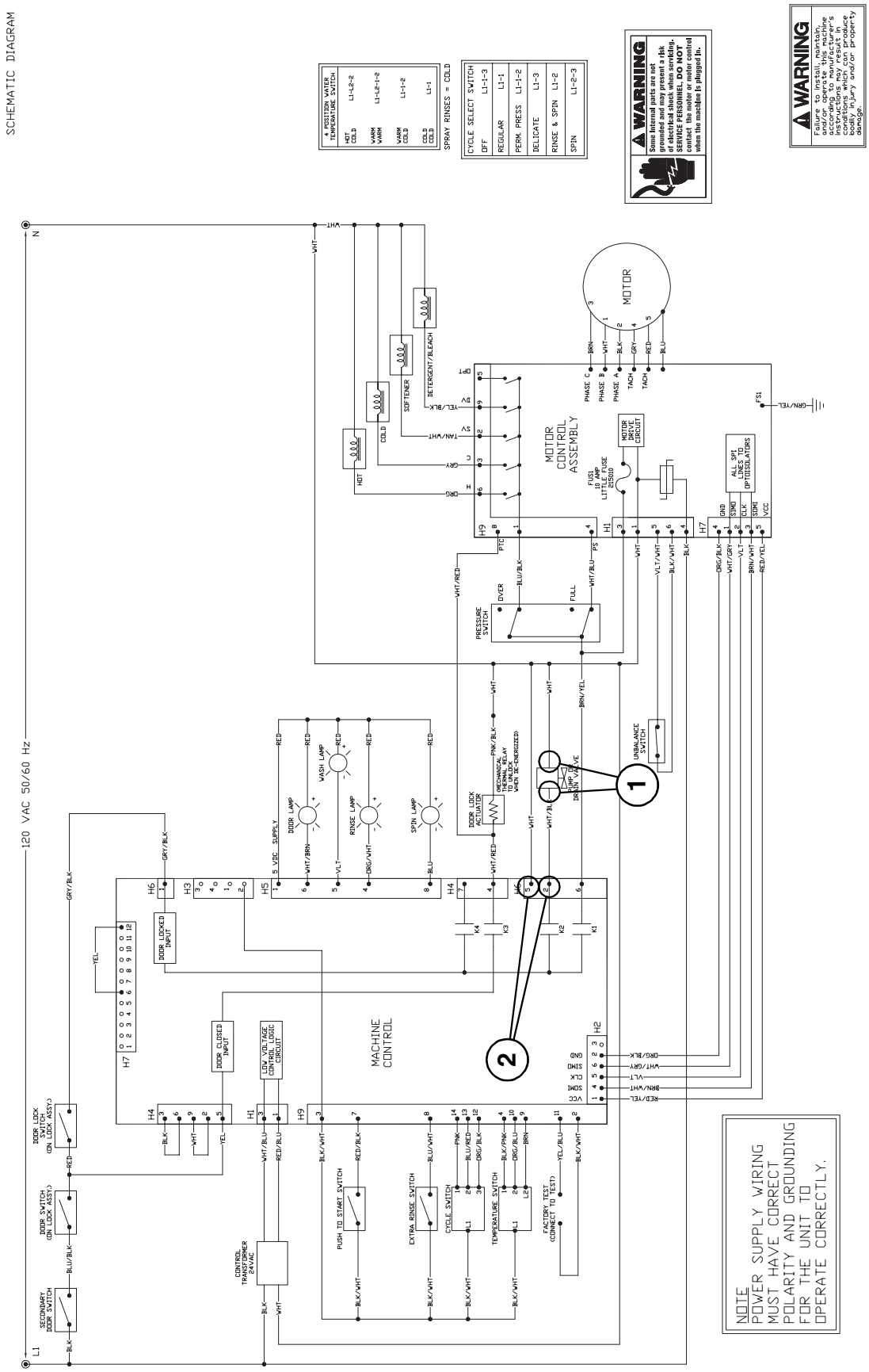
PUMP DOES NOT OPERATE



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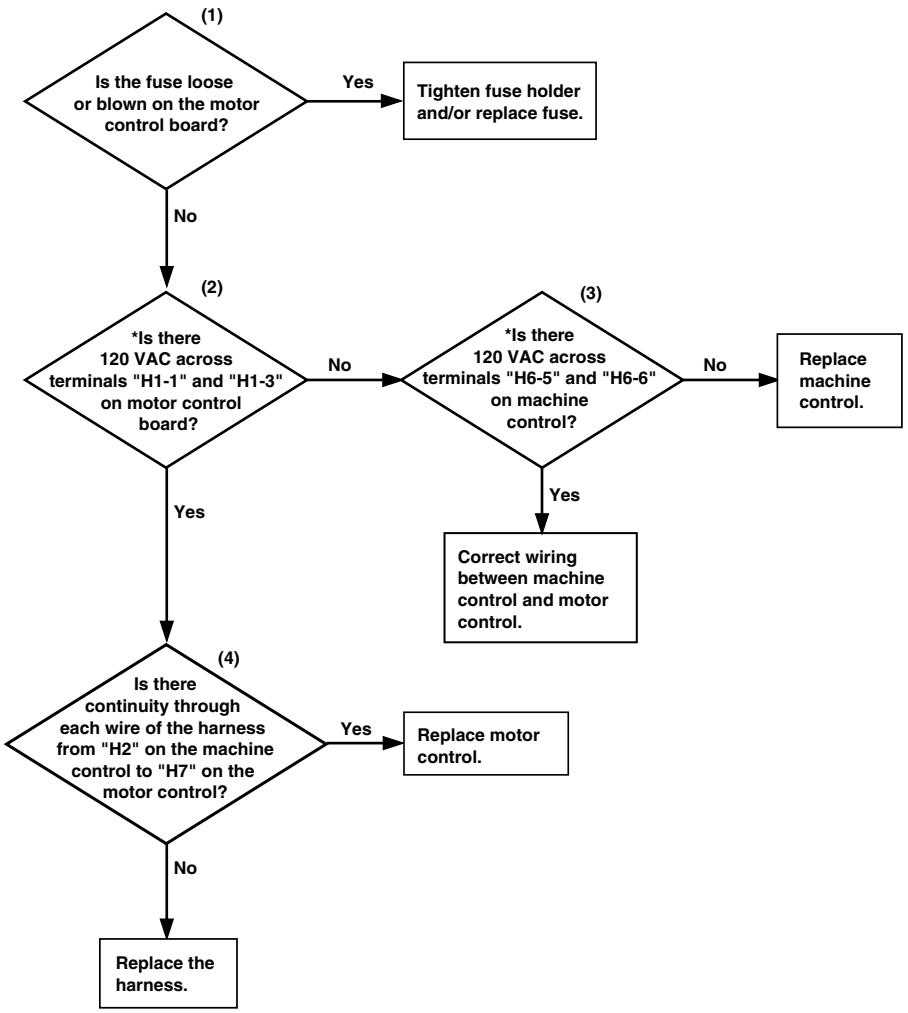
11. SERIAL COMMUNICATION ERROR (FINAL SPIN/RINSE LEDS FLASHING)


(1)
Is the fuse loose or blown on the motor control board?
Yes
Tighten fuse holder and/or replace fuse.
No
(2)
*Is there 120 VAC across terminals "H1-1" and "H1-3" on motor control board?
No
(3)
*Is there 120 VAC across terminals "H6-5" and "H6-6" on machine control?
No
Replace machine control.
Yes
Correct wiring between machine control and motor control.
Yes
(4)
Is there continuity through each wire of the harness from "H2" on the machine control to "H7" on the motor control?
Yes
Replace motor control.
No
Replace the harness.

FLW1714S

***NOTE: Machine must be restarted to check voltage. Voltage is intermittently present for the first 15 seconds until error mode is displayed.**

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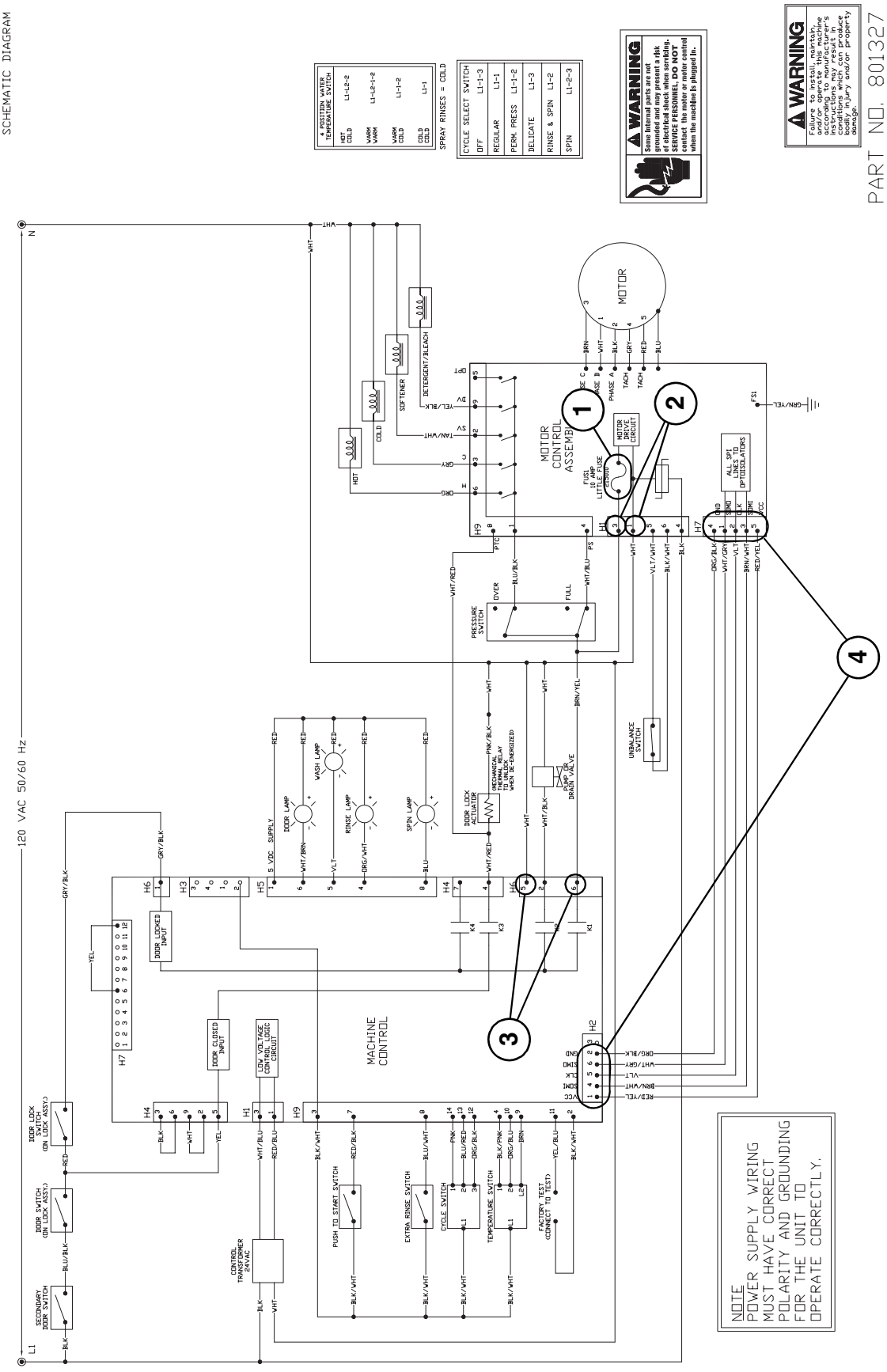
SERIAL COMMUNICATION ERROR (FINAL SPIN/RINSE LEDS FLASHING)



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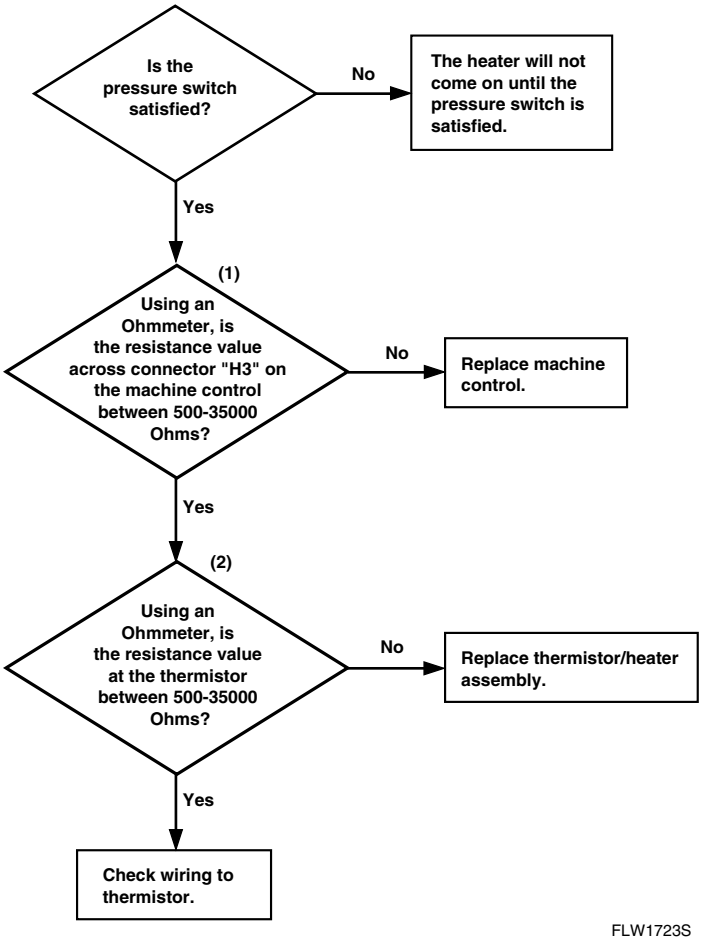
12. WASHER WILL NOT HEAT – OPEN/SHORTED TEMPERATURE SENSOR (HEATING LED FLASHING AT END OF CYCLE) (MODELS EQUIPPED WITH HEATER)


Is the pressure switch satisfied?
No
The heater will not come on until the pressure switch is satisfied.
Yes
(1)
Using an Ohmmeter, is the resistance value across connector "H3" on the machine control between 500-35000 Ohms?
No
Replace machine control.
Yes
(2)
Using an Ohmmeter, is the resistance value at the thermistor between 500-35000 Ohms?
No
Replace thermistor/heater assembly.
Yes
Check wiring to thermistor.

FLW1723S

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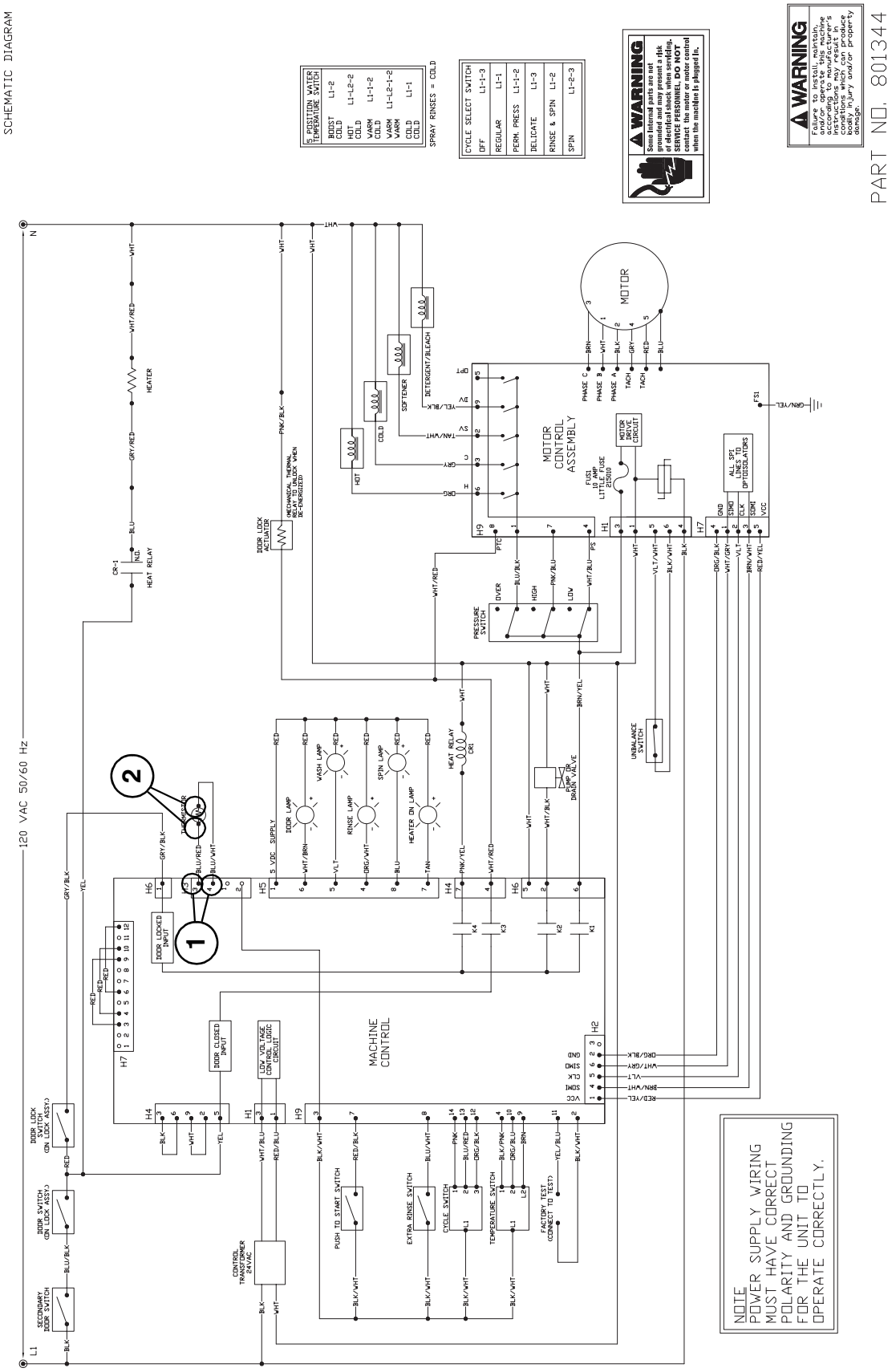
WASHER WILL NOT HEAT – OPEN/SHORTED TEMPERATURE SENSOR (HEATING LED FLASHING AT END OF CYCLE) (MODELS EQUIPPED WITH HEATER)



WARNING
Some internal parts are not grounded and may present a risk of electrified shocks when servicing. To avoid electrical shock, DO NOT contact the motor or motor control when the machine is plugged in.

WARNING
Failure to install, maintain, and/or operate this machine according to manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

PART NO. 801344

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13. WASHER WILL NOT HEAT (MODELS EQUIPPED WITH HEATER)

Is the pressure switch satisfied?
No
The heater will not come on until the pressure switch is satisfied.
Yes
Is the "Heating" light lit?
No
(1)
Is there 5 Volts DC between terminals "H9-3" and "H9-10", 0 Volts DC between "H9-4" and "H9-3" and 0 Volts DC between "H9-9" and "H9-3"?
No
Is "Boosted Hot" selected on temperature select switch?
Yes
Yes
Correct wiring between temperature switch and control or replace temperature select switch.
Yes
(2)
Is there 120 Volts across the heater?
No
(3)
Is there 120 Volts between terminal 3 on the heat relay and neutral?
No
Correct wiring between door lock and terminal 3 on heat relay.
Yes
Replace heater.
Yes
(4)
Is there 120 Volts across terminals 1-2 on the heat relay?
No
Replace machine control.
Yes
Replace heat relay.
FLW1724S

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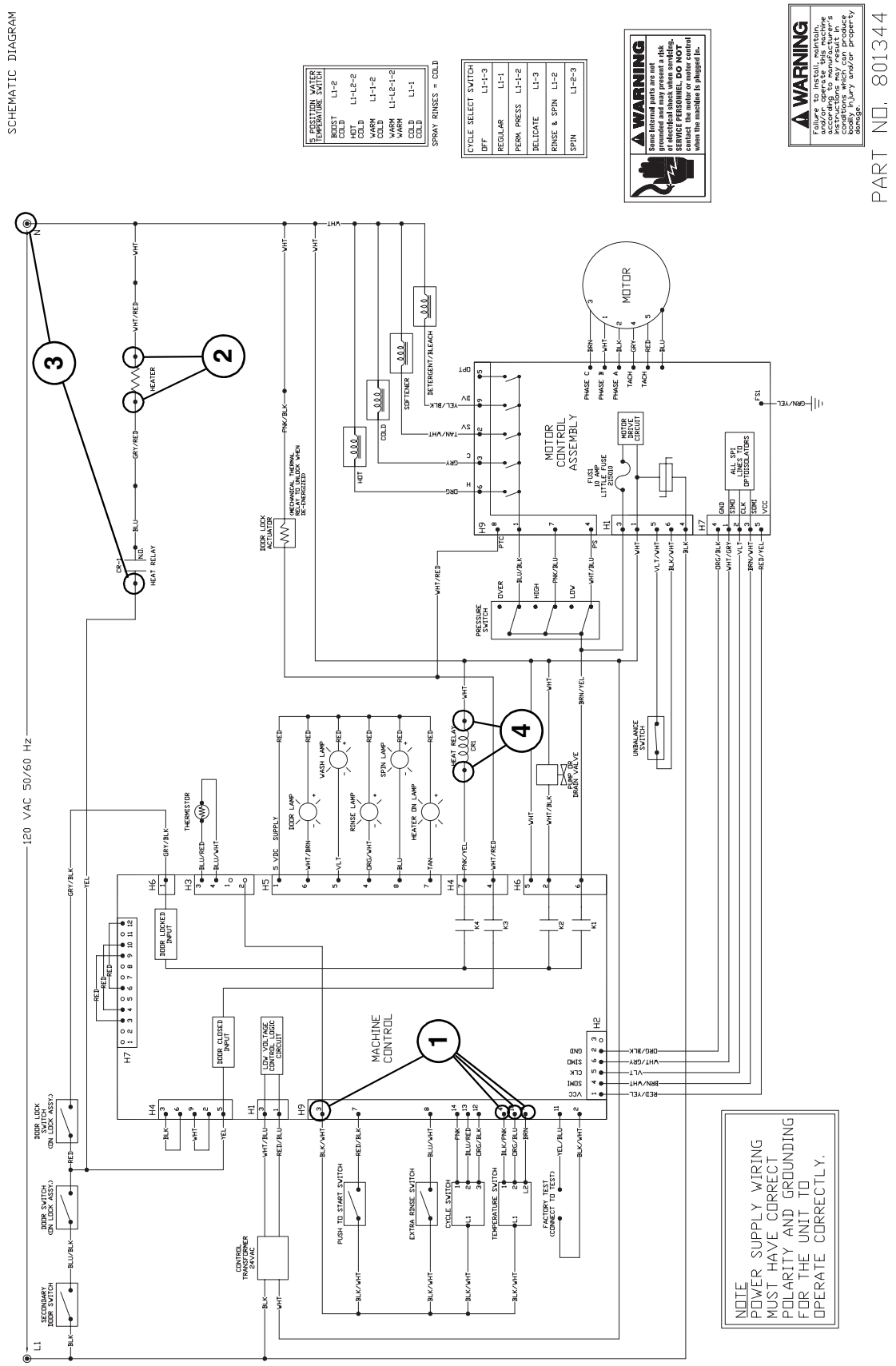
WASHER WILL NOT HEAT (MODELS EQUIPPED WITH HEATER)



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Notes

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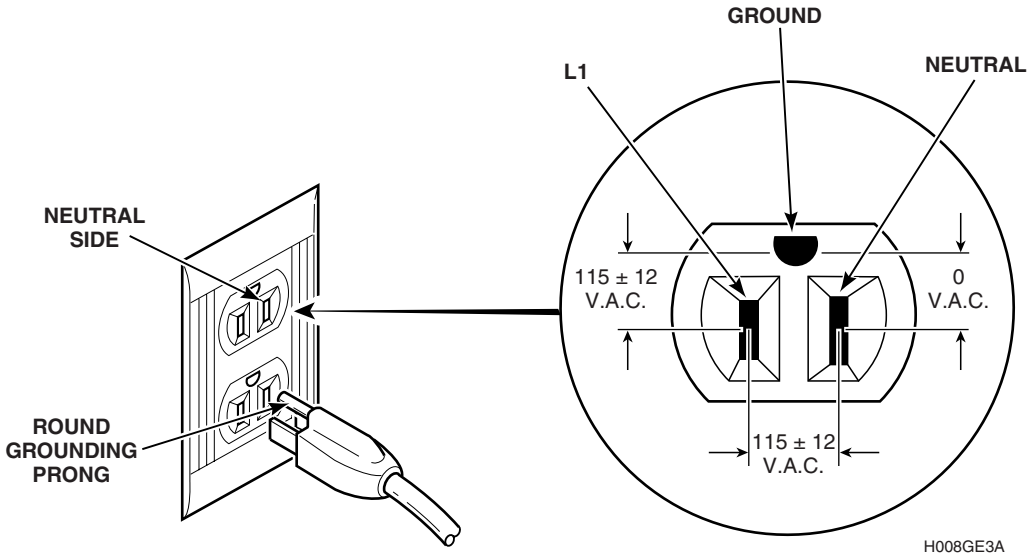
Section 4
Grounding

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

14. WALL RECEPTACLE POLARITY CHECK
Refer to *Figure 1*.



NOTE: Have a qualified electrician check polarity of wall receptacle. If a voltage reading is measured other than that illustrated, the qualified electrician should correct the problem.

Figure 1

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

15. MACHINE GROUND CONNECTIONS - Front Control Washers
Refer to *Figure 2*

1. Ground to Control Panel Assembly
2. Ground to Control Cabinet Base
3. Ground to Electronic Control
4. Ground Power Cord to Control Cabinet
5. Grounding Hardware to Control Cabinet
6. Ground to Electric Drain Pump
7. Ground to Outer Tub
8. Ground to Outer Tub Front
9. Ground to Outer Tub to Cabinet

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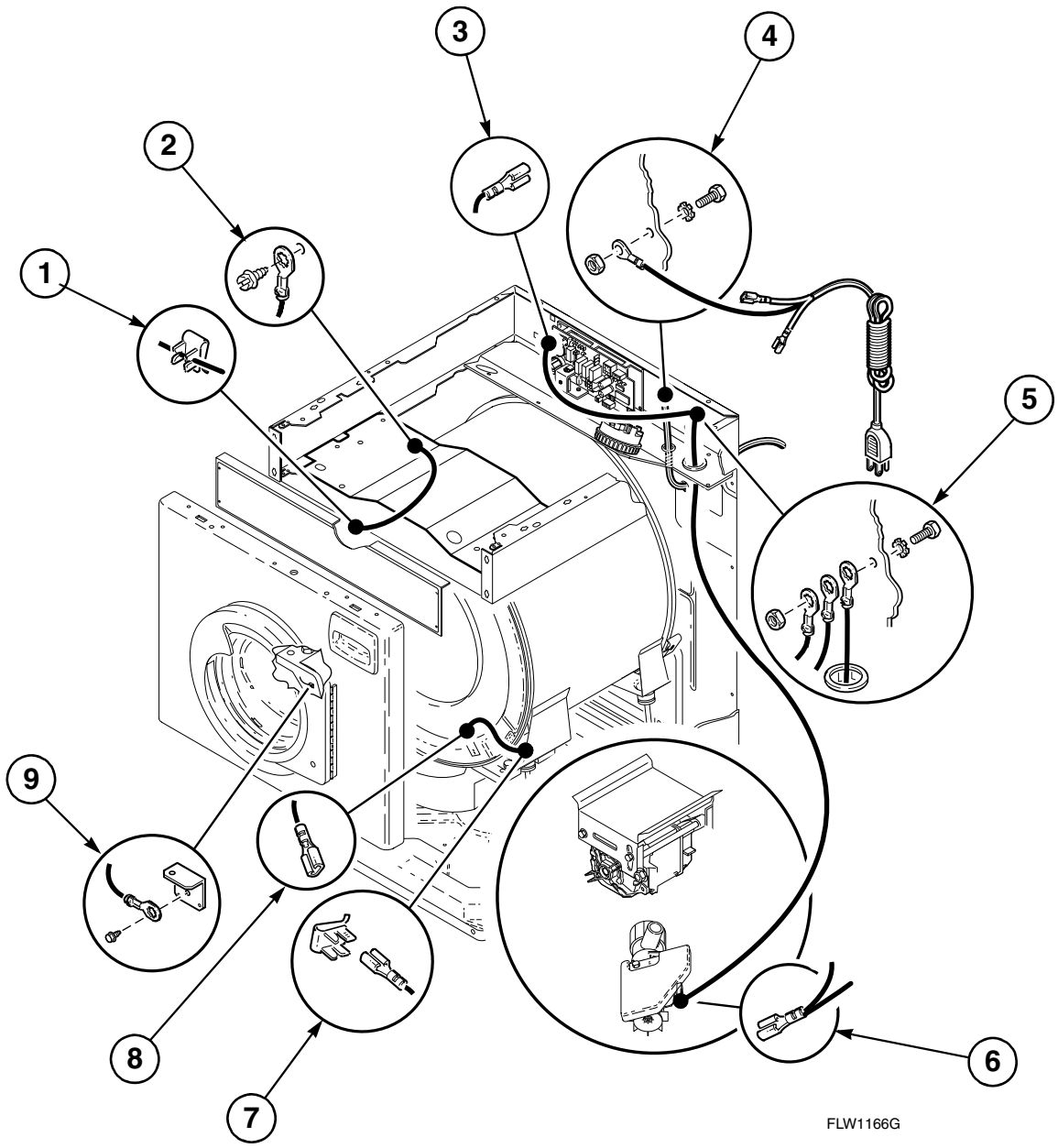

Front Control Washers

Figure 2

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

16. MACHINE GROUND CONNECTIONS - Rear Control Washers
Refer to *Figure 3*

1. Ground to Control Panel Assembly
2. Ground to Cabinet Top
3. Ground Power Cord to Cabinet Top
4. Ground to Electric Drain Pump
5. Ground to Outer Tub
6. Ground to Outer Tub Front
7. Ground to Outer Tub to Cabinet

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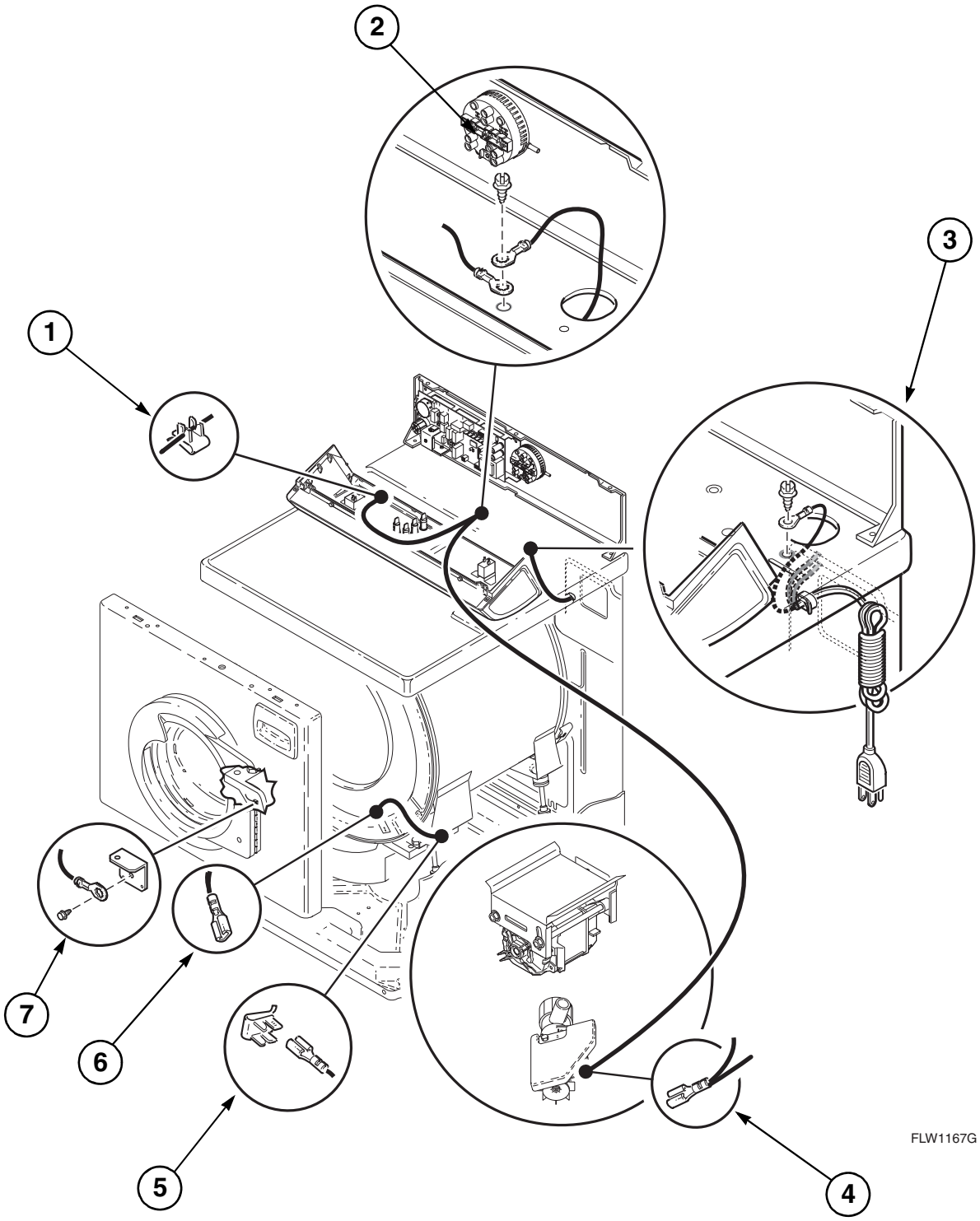

Rear Control Washers

Figure 3

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Notes

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Section 5
Service Procedures

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

IMPORTANT: When reference is made to directions (right or left) in this manual, it is from operator's position facing front of washer.

17. CONTROL CABINET (Front Control Washers)

a. Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.

b. Remove screws holding cabinet top to control cabinet. Refer to *Figure 5*.

c. If area or space permits, lift cabinet top to a vertical position.

NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to *Figure 4*.

d. Remove cabinet top from washer by removing nuts and carriage bolts holding cabinet top and hinges to control cabinet. Refer to *Figure 4*.

e. Carefully lift cabinet top off washer and set out of the way to prevent damage.

f. Remove timer knob from cycle switch shaft. Refer to *Figure 5*.

g. Pull temperature switch knob off shaft.

h. Remove screws holding control cabinet base to control cabinet. Refer to *Figure 5*.

i. Remove screws holding control shield (with controls attached) to bottom rear flange of control cabinet. Refer to *Figure 5*.

j. Remove screws holding control to rear of control cabinet. Refer to *Figure 5*.

k. Remove screws holding control cabinet to top flange of side panels. Refer to *Figure 5*.

l. Carefully lift control cabinet assembly off washer.

m. Remove screws holding left, right and rear control cabinets together. Refer to *Figure 5*.

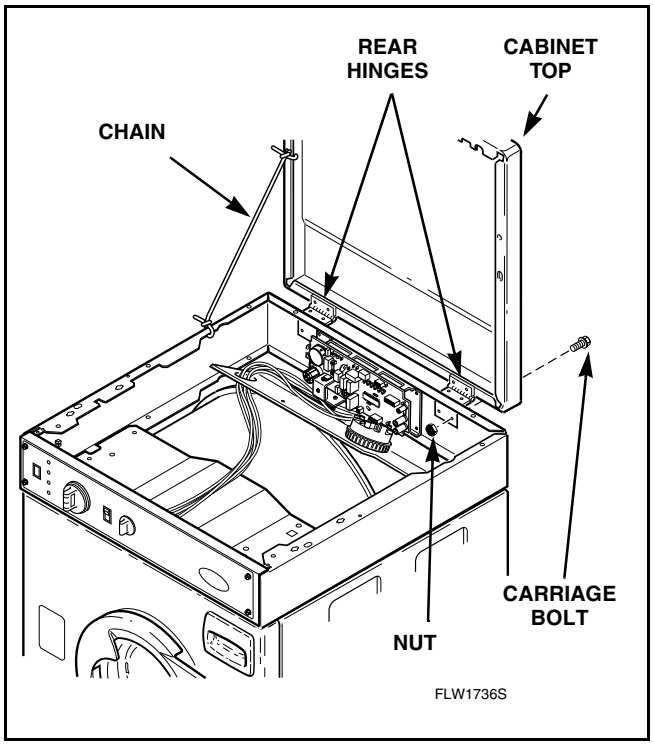

Figure 4

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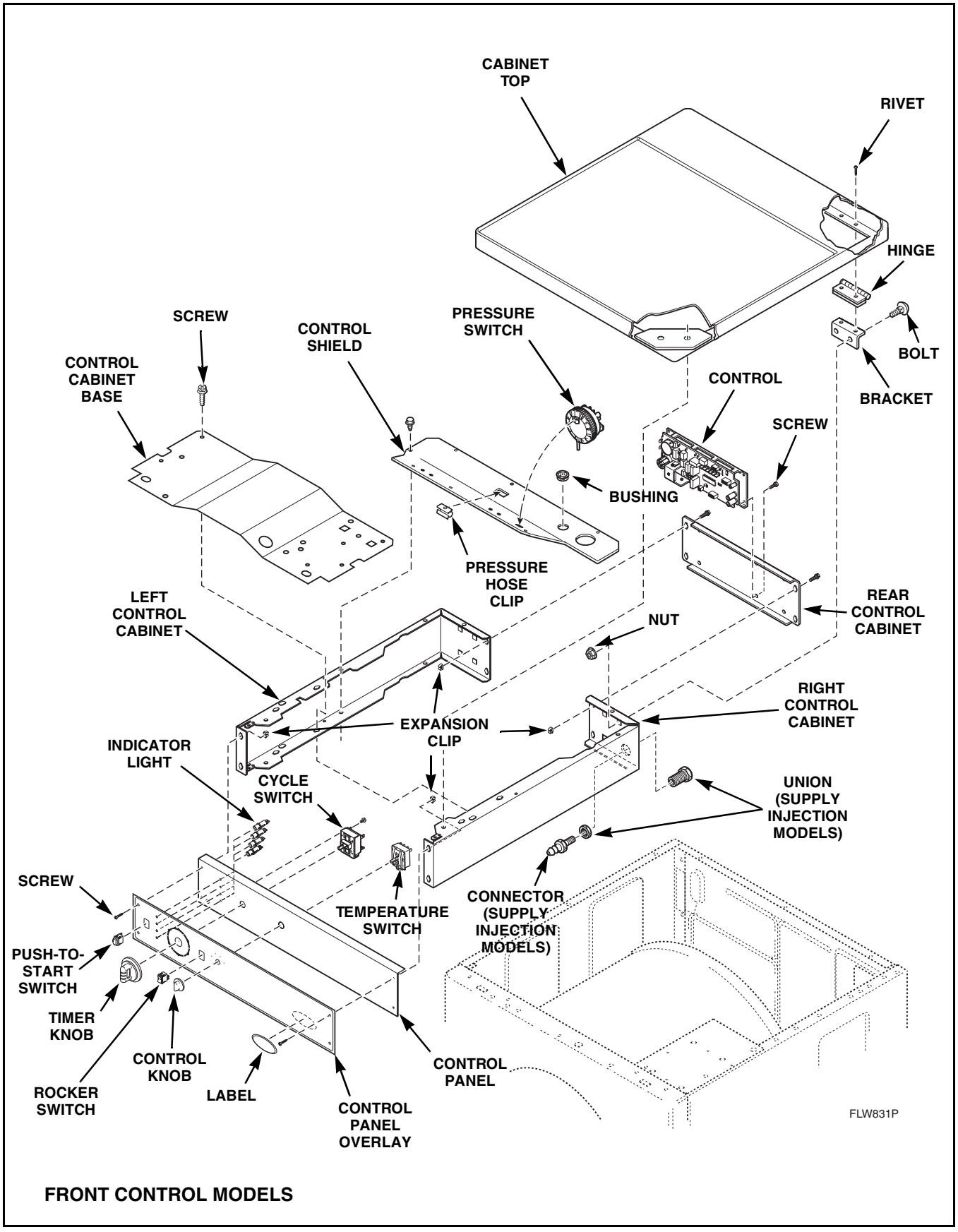

Figure 5

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

18. CONTROL HOOD ASSEMBLY (Rear Control Washers)

a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 6*.

b. Pivot hood assembly forward on cabinet top. Refer to *Figure 6*.

c. Carefully remove bottom front of hood from clips on cabinet top.

d. Disconnect wires from components and carefully remove components from hood assembly.

NOTE: Refer to wiring diagram when rewiring component parts.

TO REMOVE CONTROL HOOD END PANELS

Remove two screws holding each end panel to control mounting plate. Refer to *Figure 7*.

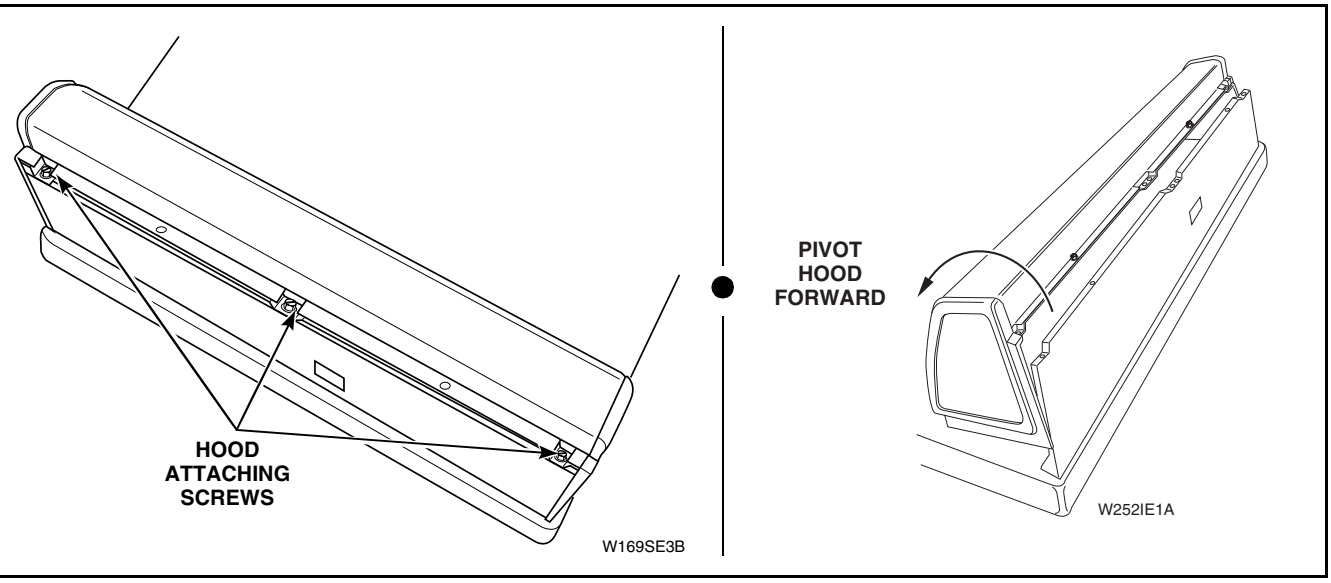

Figure 6

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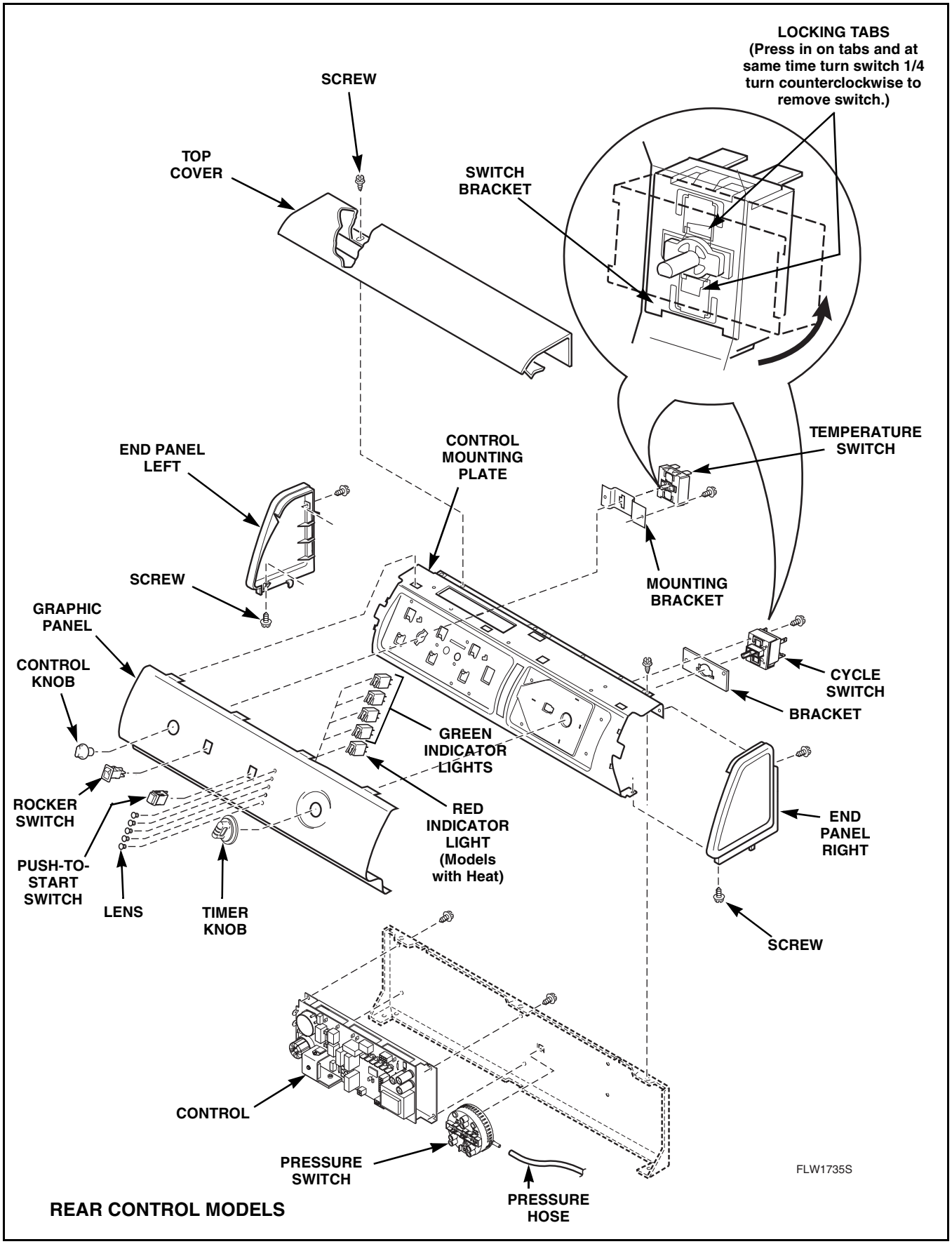

Figure 7

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

19. CYCLE SWITCH

Front Control Washers

a. Remove timer knob from cycle switch shaft. Refer to *Figure 5*.
b. Remove screws holding control panel to control cabinet. Refer to *Figure 5*.
c. Remove control panel as far as wires permit.
d. Disconnect wires from switch terminals.

NOTE: DO NOT pull on wires. Instead, unplug by pulling on disconnect blocks. Use a pliers if necessary.

NOTE: Refer to wiring diagram when rewiring switch.

Rear Control Washers

a. Remove timer knob from cycle switch shaft. Refer to *Figure 7*.
b. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 6*.
c. Pivot hood assembly forward on cabinet top. Refer to *Figure 6*.
d. Disconnect wires from switch terminals.

NOTE: DO NOT pull on wires. Instead, unplug by pulling on disconnect blocks. Use a pliers if necessary.

NOTE: Refer to wiring diagram when rewiring switch.

e. Refer to *Figure 7* for switch removal.
f. Press in on two locking tabs and at the same time turn switch 1/4 turn counterclockwise to remove switch from switch bracket. Refer to *Figure 7*.

IMPORTANT: Before removing switch, note switch position in relation to switch bracket so switch can be reinstalled in same position.

NOTE: When installing switch, place switch tabs into cutout in switch bracket and turn switch clockwise to its full limit of travel, within the switch bracket opening, until both locking tabs snap into place.

20. TEMPERATURE SWITCH

Front Control Washers

a. Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.
b. Remove screws holding cabinet top to control cabinet. Refer to *Figure 5*.
c. If area or space permits, lift cabinet top to a vertical position.

NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to *Figure 4*.

d. Disconnect wires from switch terminals.

NOTE: DO NOT pull on wires. Instead, unplug by pulling on disconnect blocks. Use a pliers if necessary.

NOTE: Refer to wiring diagram when rewiring switch.

e. Remove screws holding temperature switch to control panel. Refer to *Figure 5*.

Rear Control Washers

a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 6*.
b. Pivot hood assembly forward on cabinet top. Refer to *Figure 6*.
c. Disconnect wires from switch terminals.

NOTE: DO NOT pull on wires. Instead, unplug by pulling on disconnect blocks. Use a pliers if necessary.

NOTE: Refer to wiring diagram when rewiring switch.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

d. Refer to *Figure 7* for switch removal.
e. Press in on two locking tabs and at the same time turn switch 1/4 turn counterclockwise to remove switch from switch bracket. Refer to *Figure 7*.

IMPORTANT: Before removing switch, note switch position in relation to switch bracket so switch can be reinstalled in same position.

NOTE: When installing switch, place switch tabs into cutout in switch bracket and turn switch clockwise to its full limit of travel, within the switch bracket opening, until both locking tabs snap into place.

21. PRESSURE SWITCH

Front Control Washers

a. Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.
b. Remove screws holding cabinet top to control cabinet. Refer to *Figure 5*.
c. If area or space permits, lift cabinet top to a vertical position.

NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to *Figure 4*.

d. Disconnect wires from pressure switch.

NOTE: DO NOT pull on wires. Instead, unplug by pulling on disconnect blocks. Use a pliers if necessary.

NOTE: Refer to wiring diagram when rewiring switch.

e. Refer to *Figure 5* for switch removal.

IMPORTANT: Before connecting hose to pressure switch, blow air through pressure hose to remove any condensation that may have accumulated in hose.

Rear Control Washers

a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 6*.
b. Pivot hood assembly forward on cabinet top. Refer to *Figure 6*.
c. Disconnect wires from pressure switch.

NOTE: DO NOT pull on wires. Instead, unplug by pulling on disconnect blocks. Use a pliers if necessary.

NOTE: Refer to wiring diagram when rewiring switch.

d. Refer to *Figure 7* for switch removal.

IMPORTANT: Before connecting hose to pressure switch, blow air through pressure hose to remove any condensation that may have accumulated in hose.

22. CONTROL

Front Control Washers

a. Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.
b. Remove screws holding cabinet top to control cabinet. Refer to *Figure 5*.
c. If area or space permits, lift cabinet top to a vertical position.

NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to *Figure 4*.

d. Disconnect harness connectors from control board.

NOTE: DO NOT pull on wires. Instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

NOTE: Refer to wiring diagram when rewiring control board.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

IMPORTANT: Remove control board and metal mounting plate as a unit. Handle control board by the back metal plate. Do not contact control board with hands or metal objects. Place assembly in clean, dry area away from work area to avoid damage. Do not attempt field repair of the control. Attempted repair or tampering with the control will void its warranty.

e. Remove four screws holding control to rear control cabinet. Refer to *Figure 5*.
f. Remove control and place in anti-static shipping material for return to manufacturer.

IMPORTANT: It is important to take care when handling original control. It must be carefully placed in anti-static shipping material which was removed from new control. Warranty credit will not be issued if control is not wrapped properly.

Rear Control Washers

a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 6*.
b. Pivot hood assembly forward on cabinet top. Refer to *Figure 6*.
c. Disconnect harness connectors from control board.

NOTE: DO NOT pull on wires. Instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

NOTE: Refer to wiring diagram when rewiring control board.

IMPORTANT: Remove control board and metal mounting plate as a unit. Handle control board by the back metal plate. Do not contact control board with hands or metal objects. Place assembly in clean, dry area away from work area to avoid damage. Do not attempt field repair of the control. Attempted repair or tampering with the control will void its warranty.

d. Remove four screws holding control to control hood rear panel. Refer to *Figure 7*.
e. Remove control and place in anti-static shipping material for return to manufacturer.

IMPORTANT: It is important to take care when handling original control. It must be carefully placed in anti-static shipping material which was removed from new control. Warranty credit will not be issued if control is not wrapped properly.

23. INDICATOR LIGHTS

Front Control Washers

a. Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.
b. Disconnect two wires from indicator light.

NOTE: Refer to wiring diagram when rewiring light.

c. Squeeze locking tabs together and pull light out rear of control panel.

Rear Control Washers

a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 6*.
b. Pivot hood assembly forward on cabinet top. Refer to *Figure 6*.
c. Carefully remove bottom front of hood from clips on cabinet top.
d. Remove lens from front of graphic panel. Refer to *Figure 7*.
e. Disconnect two wires from indicator light and remove light. Refer to *Figure 7*.

NOTE: Refer to wiring diagram when rewiring light.

24. PUSH-TO-START/ROCKER SWITCH

Front Control Washers

a. Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.
b. Disconnect wires from switch.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

c. Remove switch through front of panel. Refer to *Figure 5*.

Rear Control Washers

a. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 6*.
b. Pivot hood assembly forward on cabinet top. Refer to *Figure 6*.
c. Carefully remove bottom front of hood from clips on cabinet top.
d. Disconnect wires from switch.
e. Remove switch through front of panel. Refer to *Figure 7*.

25. GRAPHIC PANEL

Front Control Washers

a. Remove timer knob from cycle switch shaft. Refer to *Figure 5*.
b. Pull temperature switch knob off shaft.
c. Remove four screws holding control panel overlay to control panel. Refer to *Figure 5*.

Rear Control Washers

a. Remove timer knob from cycle switch shaft. Refer to *Figure 7*.
b. Pull temperature switch knob off shaft.
c. Remove indicator light lenses. Refer to *Figure 7*.
d. Remove three screws holding rear of hood assembly to control hood rear panel. Refer to *Figure 6*.
e. Pivot hood assembly forward on cabinet top. Refer to *Figure 6*.
f. Carefully remove bottom front of hood from clips on cabinet top.
g. Disconnect wires from components and carefully remove components from control mounting plate.

NOTE: Refer to wiring diagram when rewiring component parts.

h. Remove screws holding both end panels to control hood assembly. Refer to *Figure 7*.
i. Bend tabs on graphic panel (located inside of control hood) straight out toward rear of hood.
j. Carefully remove graphic panel off front of control mounting plate. Refer to *Figure 7*.

26. LOWER ACCESS PANEL

a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 8*.
b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.

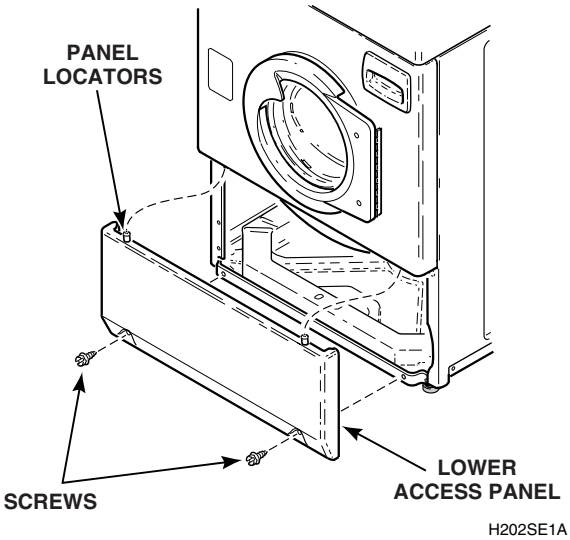

Figure 8

27. CABINET TOP ASSEMBLY

Front Control Washers

a. Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.
b. Remove screws holding cabinet top to control cabinet. Refer to *Figure 5*.
c. If area or space permits, lift cabinet top to a vertical position.

NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to *Figure 4*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

d. Remove screws holding cabinet top to hinges and remove top.

Rear Control Washers

a. While supporting lower access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.
b. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 9*.
c. Open loading door. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is in 6 o'clock position. Refer to *Figure 10*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.

d. Grasp loading door seal lip. Refer to *Figure 11*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

e. Using a circular motion, pull seal up (*Figure 11*, Step 1), out (*Figure 11*, Step 2) and down (*Figure 11*, Step 3).
f. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 11*, Step 4.
g. Remove bottom two front panel attaching screws. Refer to *Figure 13*.
h. Remove front panel (with loading door attached) away from washer as far as wires permit.
i. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 13*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.
j. Remove two screws holding front of cabinet top to front flange of side panels. Refer to *Figure 12*.

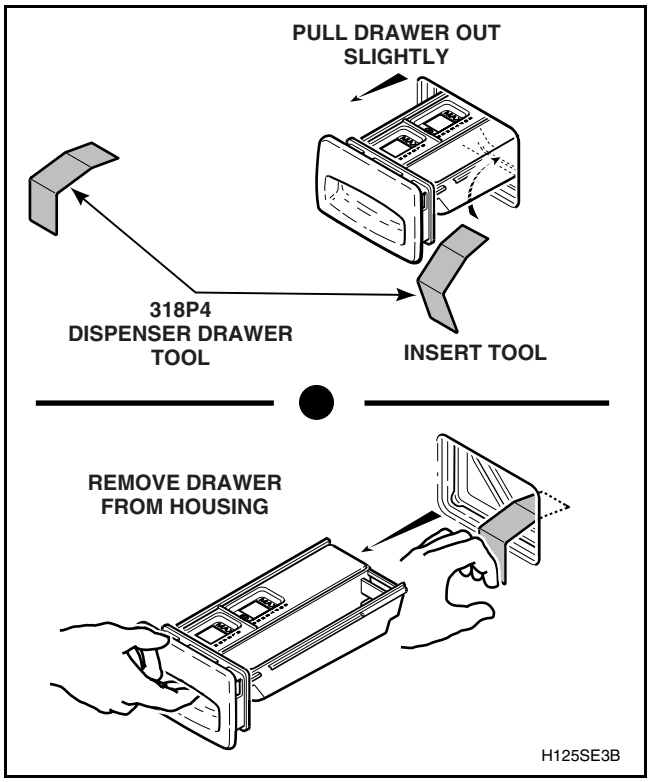

Figure 9

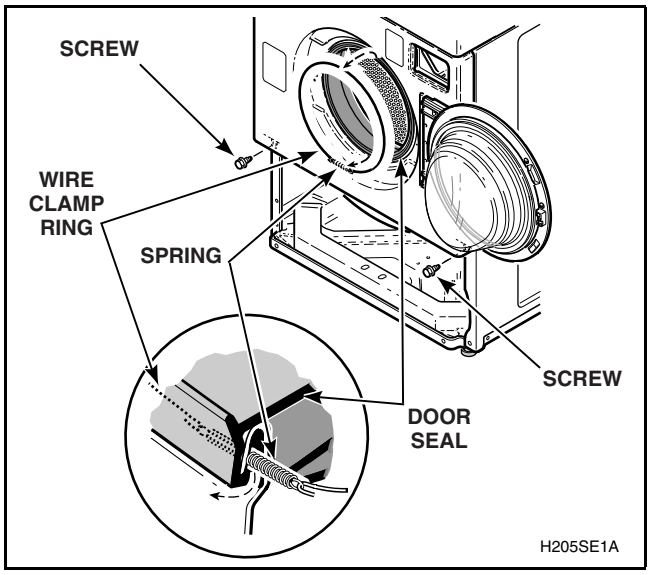

Figure 10

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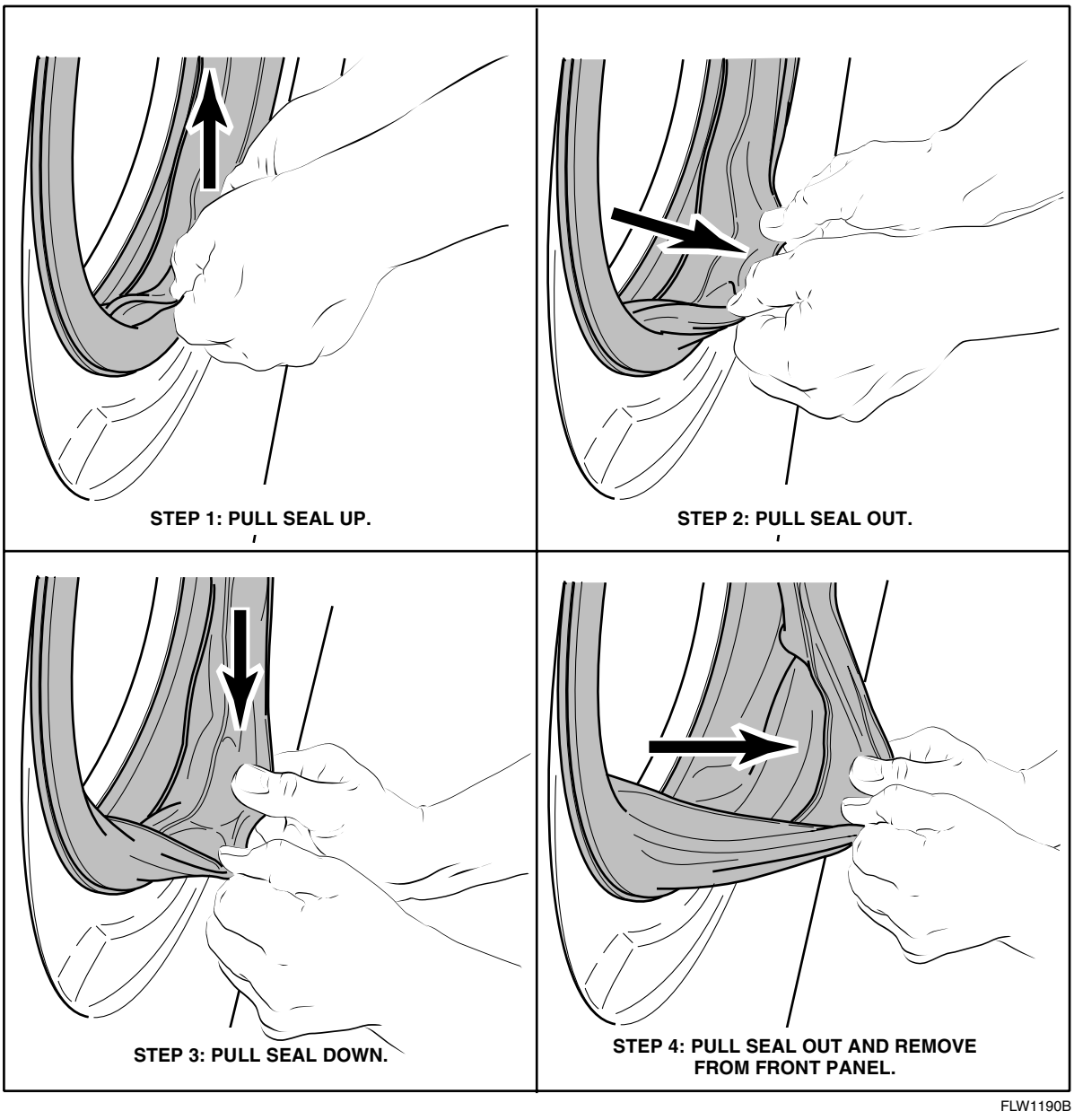

Figure 11

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

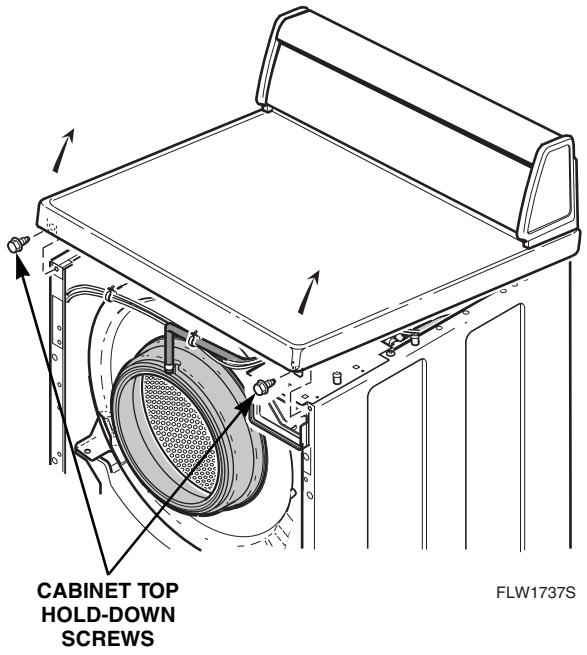

Figure 12

k. Remove three screws holding hood assembly to control hood rear panel. Refer to *Figure 6*.
l. Pivot hood assembly forward on cabinet top. Refer to *Figure 6*.
m. Disconnect hose from pressure switch and push hose down through hole in cabinet top.
n. Disconnect wire harnesses and wires.
o. Reinstall control hood assembly.
p. Lift front of cabinet top slightly and pull forward to disengage from rear hold down brackets.
q. Carefully lift cabinet top off washer and set alongside the washer cabinet on protective padding.

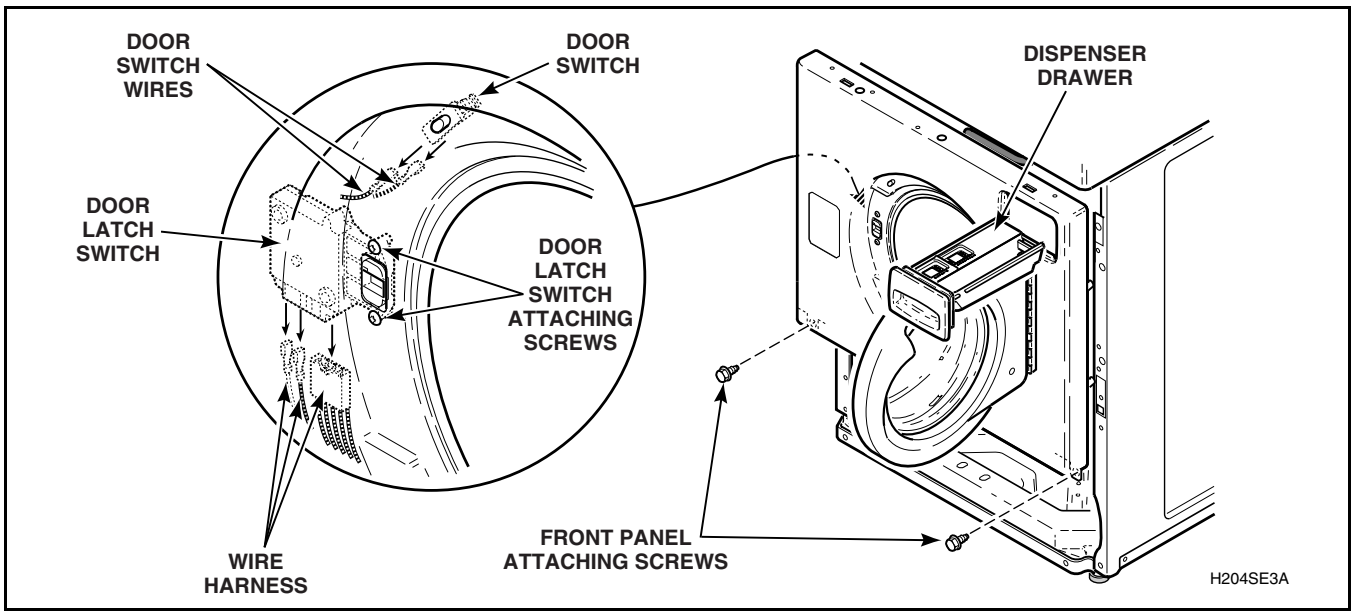

Figure 13

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WARNING

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- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

28. MIXING VALVE

a. **Front Control Washers**

(1) Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.

(2) Remove screws holding cabinet top to control cabinet. Refer to *Figure 5*.

Rear Control Washers

(1) While supporting lower access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.

(2) Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 9*.

(3) Open loading door. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is in 6 o'clock position. Refer to *Figure 10*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.

(4) Grasp loading door seal lip. Refer to *Figure 11*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

(5) Using a circular motion, pull seal up (*Figure 11*, Step 1), out (*Figure 11*, Step 2) and down (*Figure 11*, Step 3).

(6) When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 11*, Step 4.

(7) Remove bottom two front panel attaching screws. Refer to *Figure 13*.

(8) Remove front panel (with loading door attached) away from washer as far as wires permit.

(9) Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 13*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

(10) Remove two screws holding front of cabinet top to front flange of side panels. Refer to *Figure 12*.

b. If area or space permits, lift cabinet top to a vertical position.

NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to *Figure 4*.

c. Mixing valve is located on upper back right corner of rear panel. Refer to *Figure 14*.

d. Shut off external hot and cold water supply and remove two inlet hoses.

e. Loosen hose clamp and remove mixing valve-to-dispenser hose at the mixing valve. Refer to *Figure 14*.

f. Remove wire harness disconnect blocks from mixing valve solenoid terminals. Refer to *Figure 14*.

NOTE: Refer to wiring diagram when rewiring solenoids.

g. Go to rear of washer and remove screw holding mixing valve and plate to rear panel, then remove valve and plate out through opening in rear panel. Refer to *Figure 14*.

h. Remove screws holding valve to mixing valve plate. Refer to *Figure 14*.

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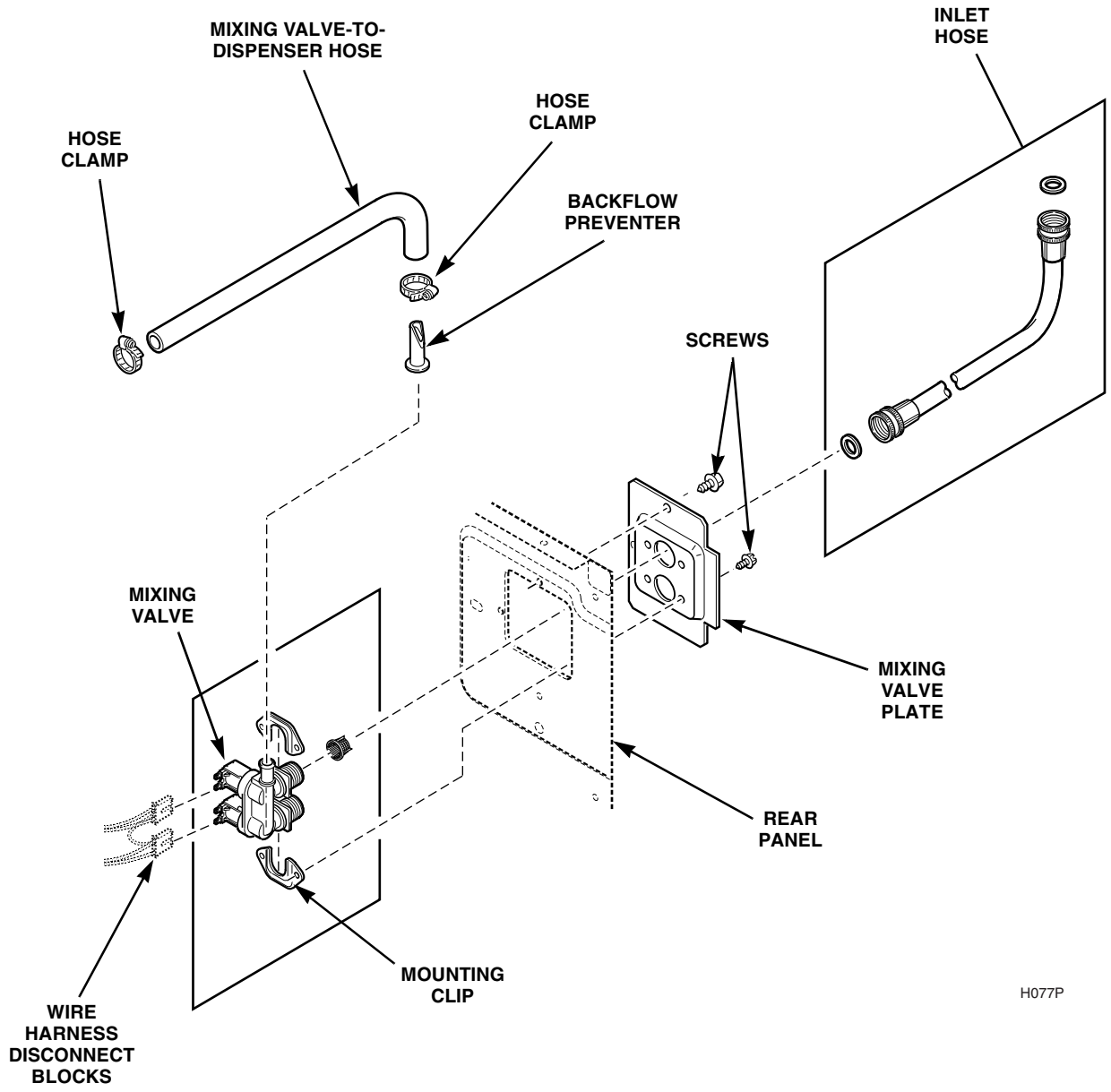

Figure 14

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

29. INVERTER CONTROL

IMPORTANT: Due to the sensitivity of the inverter control, careful handling is required. As a precautionary measure, we recommend using a ground wrist strap when handling the inverter control. Wrist strap, cord and alligator clip are designed to carry away any electrostatic charge from your body and to direct charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with handling of inverter control will be minimized. Always handle inverter control by its metal edges. If a wrist strap is not available, touch washer while it is plugged in before handling control to dissipate any charge.

NOTE: New control is supplied in a special anti-static wrapping and protected by anti-static foam. While holding control by its metal edges, remove control from foam and wrapping.

a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 8*.
b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
c. Remove screws holding plastic shield to control.
d. Remove shield.
e. Press in on locking tabs and unplug harness disconnect blocks and all wires from inverter control.

NOTE: DO NOT pull on wires, instead, hold board near appropriate disconnect block and unplug by pulling on disconnect block.

f. Remove screws holding inverter control to base of washer. Refer to *Figure 15*.
g. Place old control in the anti-static wrapping that new control was supplied in.

IMPORTANT: It is important to take care when handling the original inverter control. It must be carefully placed in the anti-static wrapping and anti-static foam which was removed from new inverter control. If inverter control is not wrapped properly, warranty credit will not be issued.

h. Position the new inverter control on base of washer as shown in *Figure 15*. Reinstall screws (removed in Step f) and tighten firmly.
i. Follow the wiring diagram and reconnect wires and harness disconnect blocks to new inverter control.
j. Secure wires to base and motor using new wire ties. Refer to *Figure 15*.
k. Reinstall plastic shield over new control.

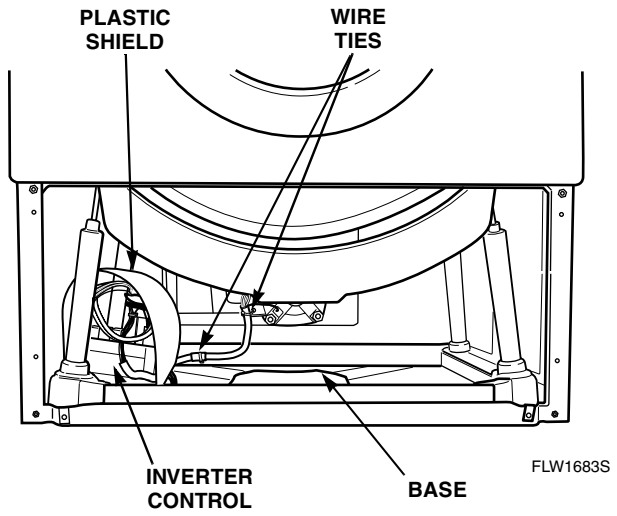

Figure 15

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

30. ELECTRIC DRAIN PUMP

a. While supporting the lower access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.

IMPORTANT: There will always be some water that will remain in the pump and hoses. Therefore, before removing hoses from pump, hoses must be drained to prevent water spillage.

b. Loosen hose clamps and remove three hoses connected to electric drain pump (outer tub-to-pump hose, vent hose and drain hose). Refer to *Figure 16*.

c. Disconnect wires from drain pump.

NOTE: Refer to wiring diagram when rewiring drain pump.

d. Remove three mounting screws holding pump to base and remove pump out through front of washer. Refer to *Figure 16*.

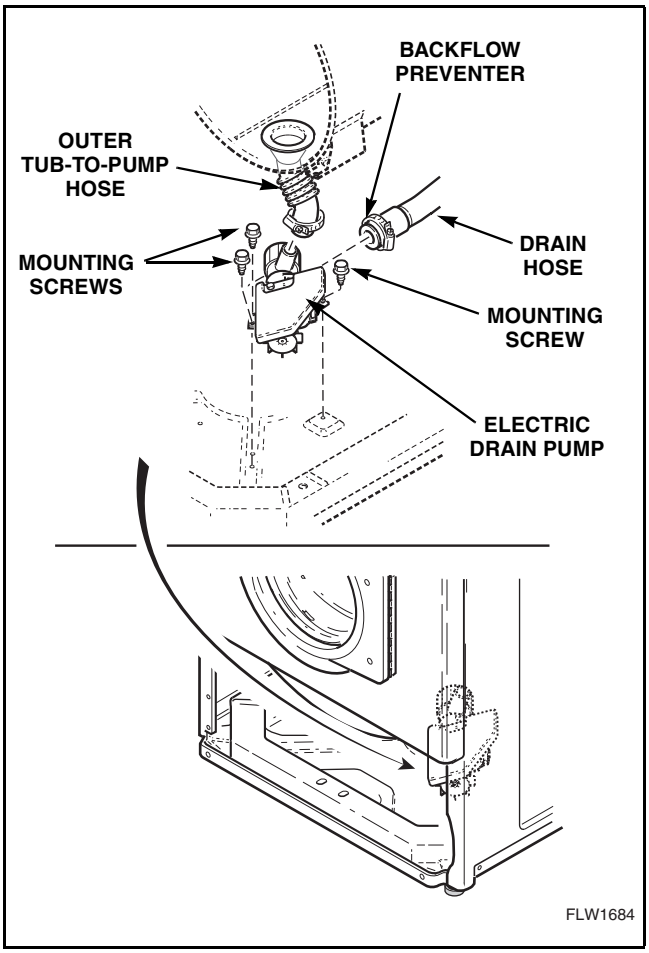

Figure 16

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

31. BELT

a. While supporting the lower access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.

b. **Front Control Washers –**

(1) Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.

(2) Remove screws holding cabinet top to control cabinet. Refer to *Figure 5*.

Rear Control Washers –

(1) Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 9*.

(2) Open loading door. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is in the 6 o'clock position. Refer to *Figure 10*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

(3) Grasp loading door seal lip. Refer to *Figure 11*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

(4) Using a circular motion, pull seal up (*Figure 11*, Step 1), out (*Figure 11*, Step 2), and down (*Figure 11*, Step 3).

(5) When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 11*, Step 4.

(6) While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 13*. Remove front panel (with loading door attached) away from washer as far as wire permits.

(7) Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 13*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

(8) Remove two screws holding cabinet top to front flange of each side panel. Refer to *Figure 12*.

c. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar.

d. Run belt off cylinder pulley while slowly turning pulley. Refer to *Figure 17*.

e. Remove belt from motor shaft.

NOTE: When installing belt, adjust belt tension as follows:

f. Working through the front access door opening, place a locking pliers on the metal rod and loosen the two adjusting bolts. Repeat procedure to loosen the two pivot bolts. Refer to *Figure 17*.

g. Pull down on motor to increase belt tension. Use a Burroughs belt gauge to obtain proper tension. Proper belt tension is obtained when belt can be deflected approximately 1/4 inch (6.35 mm) from normal position when moderate pressure 50 to 60 pounds (22.68 to 27.22 Kg) is applied to a point midway between pulleys. Refer to *Figure 17*.

h. After proper belt tension has been obtained, tighten belt adjusting bolts firmly, then tighten pivot bolts. Refer to *Figure 17*.

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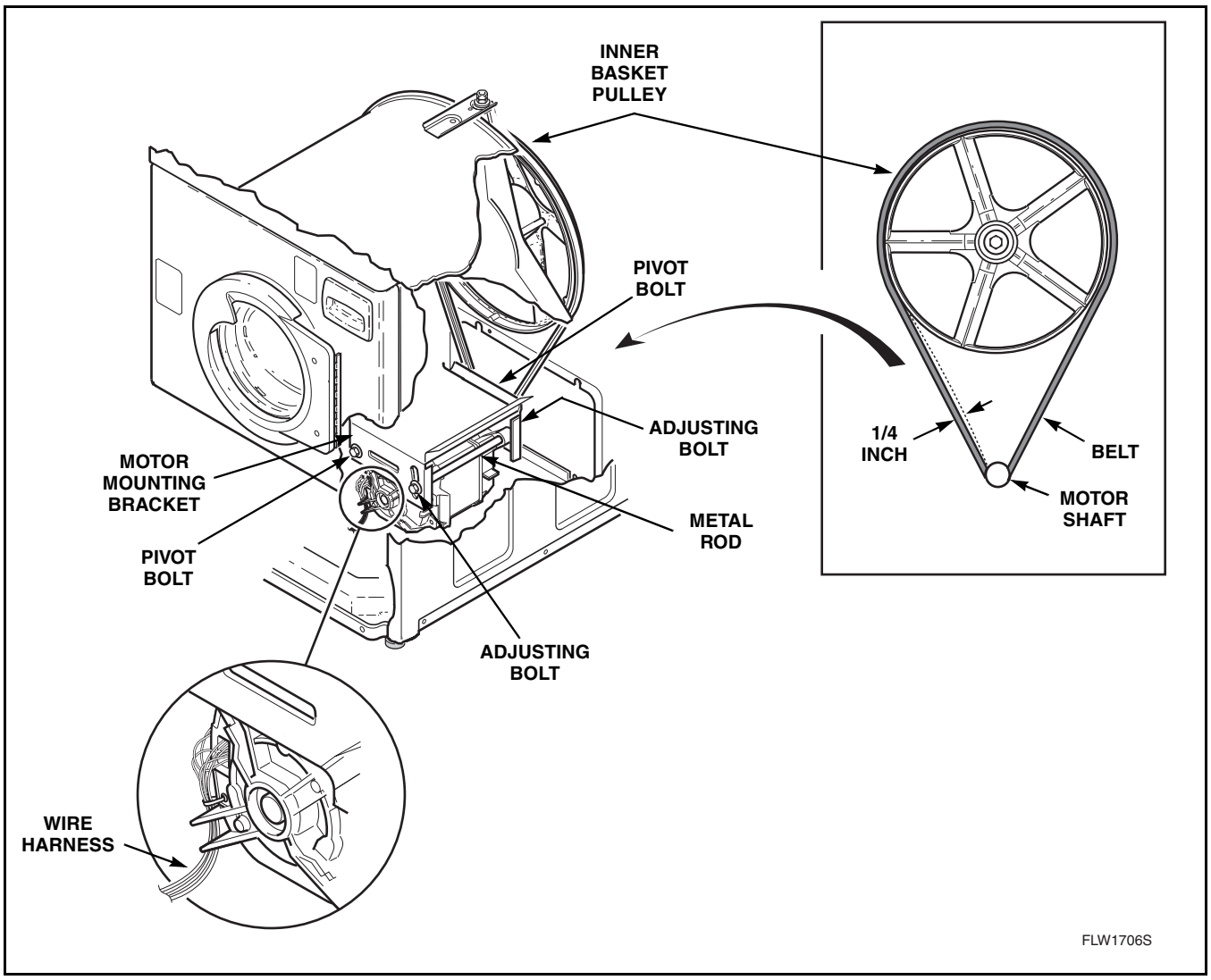

Figure 17

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

32. FRONT PANEL

a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Refer to *Figure 8*.

b. Gently lower the access panel to disengage panel locators from bottom edge of front panel.

c. **Front Control Washers**

(1) Remove timer knob from cycle switch shaft. Refer to *Figure 5*.

(2) Pull temperature switch knob off shaft.

(3) Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.

(4) Remove scews holding cabinet top to control cabinet. Refer to *Figure 5*.

(5) If area or space permits, lift cabinet top to a vertical position.

NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to *Figure 4*.

(6) Remove cabinet top from washer by removing nuts and carriage bolts holding cabinet top and hinges to control cabinet. Refer to *Figure 4*.

(7) Carefully lift cabinet top off washer and set out of the way to prevent damage.

(8) Remove screws holding control cabinet base to control cabinet. Refer to *Figure 5*.

(9) Remove screws holding control shield (with controls attached) to bottom rear flange of control cabinet. Refer to *Figure 5*.

(10) Remove screws holding control to rear control cabinet. Refer to *Figure 5*.

(11) Remove screws holding control cabinet to top flange of side panels.

(12) Carefully lift control cabinet assembly off washer.

d. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 9*.

e. Remove bottom two front panel corner screws. Refer to *Figure 12*.

f. Open loading door. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is in 6 o'clock position. Refer to *Figure 10*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

g. Grasp loading door seal lip. Refer to *Figure 11*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

h. Using a circular motion, pull seal up (*Figure 11*, Step 1), out (*Figure 11*, Step 2), and down (*Figure 11*, Step 3).

i. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 11*, Step 4.

NOTE: The ease of installation of the loading door can be improved using water or soapy solution to work seal around circumference of loading door. Be sure to install seal with the tab in the 12 o'clock position when installing the wire clamp ring to front panel. Be careful not to overstretch tension spring.

j. Remove front panel (with loading door attached) away from washer as far as wires permit.

k. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 18*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: Door seal hose and wire harness must be reinstalled in the appropriate clips and holes along top flange of front panel. Refer to *Figure 18*.

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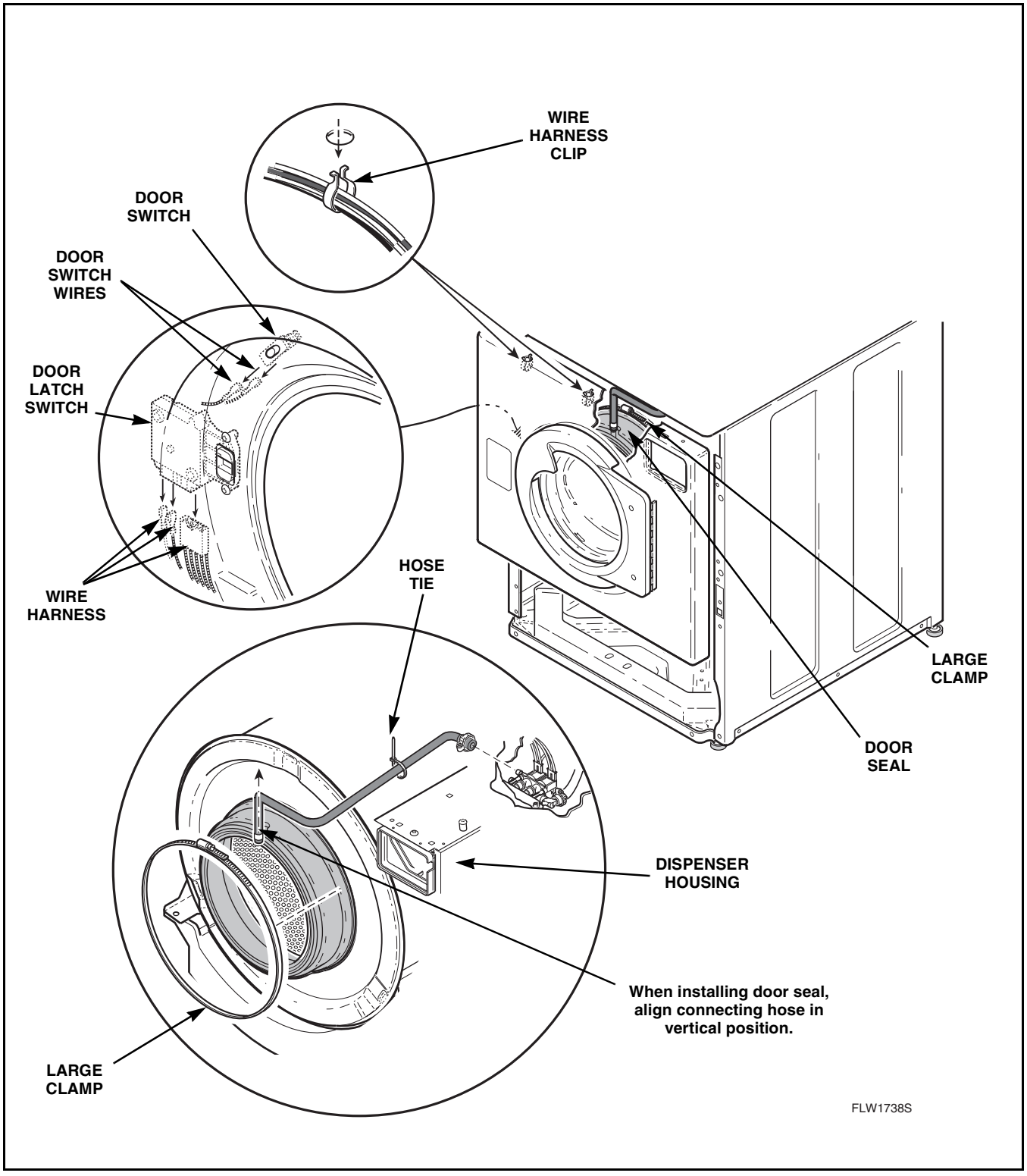

Figure 18

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

33. LOADING DOOR

a. Unlatch and open loading door.

b. Remove door bezel by prying inside lip up and forward with fingers. Refer to *Figure 19*.

c. While supporting loading door, remove screws, lockwashers and nuts holding loading door to hinge assembly and remove door. Refer to *Figure 19*.

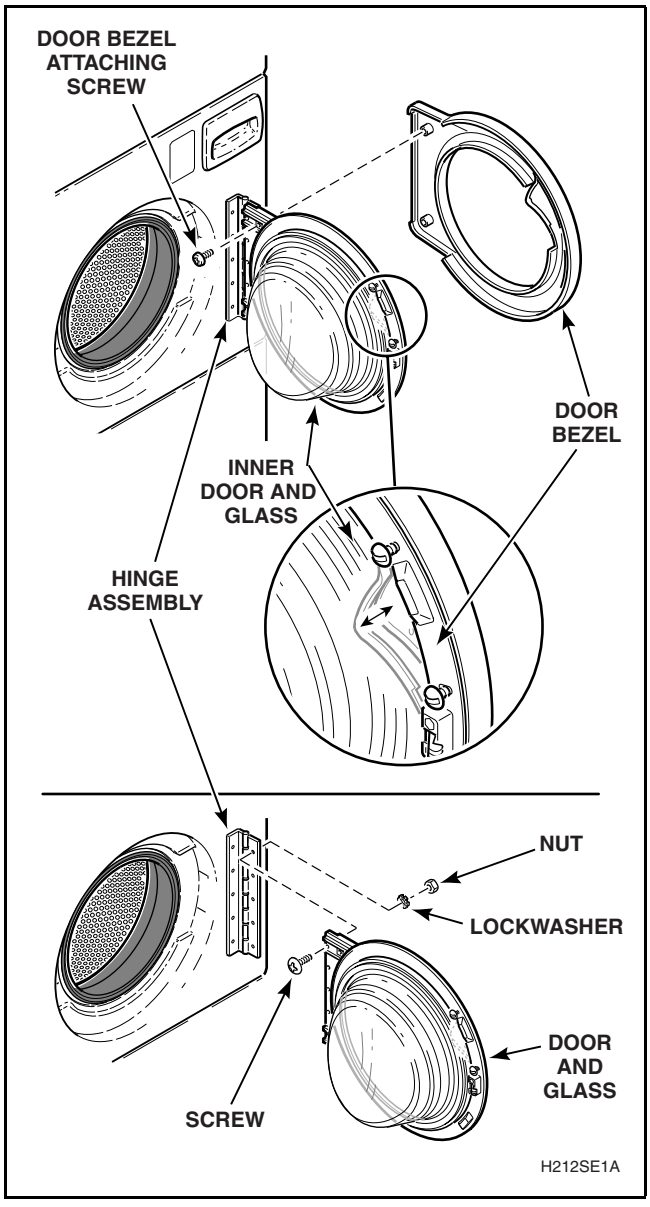

Figure 19

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WARNING

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- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

34. DOOR SEAL AND HOSE ASSEMBLY

a. **Front Control Washers**

(1) Remove timer knob from cycle switch shaft. Refer to *Figure 5*.

(2) Pull temperature switch knob off shaft.

(3) Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.

(4) Remove scews holding cabinet top to control cabinet. Refer to *Figure 5*.

(5) If area or space permits, lift cabinet top to a vertical position.

NOTE: To avoid damage to hinges, be sure to support top with a chain (not included) or equivalent. Refer to *Figure 4*.

(6) Remove cabinet top from washer by removing nuts and carriage bolts holding cabinet top and hinges to control cabinet. Refer to *Figure 4*.

(7) Carefully lift cabinet top off washer and set out of the way to prevent damage.

(8) Remove screws holding control cabinet base to control cabinet. Refer to *Figure 5*.

(9) Remove screws holding control shield (with controls attached) to bottom rear flange of control cabinet. Refer to *Figure 5*.

(10) Remove screws holding control to rear control cabinet. Refer to *Figure 5*.

(11) Remove screws holding control cabinet to top flange of side panels. Refer to *Figure 5*.

(12) Carefully lift control cabinet assembly off washer.

b. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.

c. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 9*.

d. Open loading door. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is in 6 o'clock position. Refer to *Figure 10*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

e. Grasp loading door seal lip. Refer to *Figure 11*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

f. Using a circular motion, pull seal up (*Figure 11*, Step 1), out (*Figure 11*, Step 2), and down (*Figure 11*, Step 3).

g. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 11*, Step 4.

h. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 13*. Remove front panel (with loading door attached) away from washer as far as wires permit.

i. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 18*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose. Refer to *Figure 18*.

j. **Rear Control Washers –** Remove two screws holding cabinet top to front flange of side panels. Refer to *Figure 12*. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 4*.

k. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 18*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 18*.

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WARNING

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- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

l. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 18*.

NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position.

35. DOOR SWITCH

a. Open loading door.
b. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located in the 6 o'clock position. Refer to *Figure 10*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

c. Grasp loading door seal lip. Refer to *Figure 11*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

d. Using a circular motion, pull seal up (*Figure 11*, Step 1), out (*Figure 11*, Step 2), and down (*Figure 11*, Step 3).
e. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 11*, Step 4.
f. Reach up between door seal and front panel. Refer to *Figure 18*. Press in on switch locking tabs and push switch out through front panel only far enough to allow removal of wires from switch terminals.

IMPORTANT: Refer to wiring diagram when rewiring switch.

36. DOOR LATCH SWITCH

a. Open loading door.
b. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located in the 6 o'clock position. Refer to *Figure 10*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

c. Grasp loading door seal lip. Refer to *Figure 11*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

d. Using a circular motion, pull seal up (*Figure 11*, Step 1), out (*Figure 11*, Step 2), and down (*Figure 11*, Step 3).
e. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 11*, Step 4.
f. While supporting door lock from the back (through door opening), remove two Phillips head screws holding door latch switch to front panel. Refer to *Figure 18*.
g. Gently pull door lock out through door opening. Remove door lock only far enough to disconnect harness connector from door lock. Refer to *Figure 18*.

NOTE: When installing new door lock, be sure to install small lip through mounting hole first and then rotate lock into position.

37. MOTOR

NOTE: Motor is removed out through front of washer, however, as an option, motor can be removed out through lower rear access panel opening.

Motor Removal –

a. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.
b. **Front Control Washers –**
   (1) Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.

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WARNING

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- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

(2) Remove screws holding cabinet top to control cabinet. Refer to *Figure 5*.

Rear Control Washers –

(1) Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 9*.

(2) Open loading door. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is in 6 o'clock position. Refer to *Figure 10*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to the right or left of spring.

(3) Grasp loading door seal lip. Refer to *Figure 11*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

(4) Using a circular motion, pull seal up (*Figure 11*, Step 1), out (*Figure 11*, Step 2) and down (*Figure 11*, Step 3).

(5) When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 11*, Step 4.

(6) While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 13*. Remove front panel (with loading door attached) away from washer as far as wires permit.

(7) Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 18*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

(8) Remove two screws holding cabinet top to front flange of side panel. Refer to *Figure 12*.

c. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges. Refer to *Figure 4*.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 4*.

d. Run belt off inner basket pulley while slowly turning pulley. Refer to *Figure 17*.

e. Remove belt from motor shaft.

f. Cut the wire tie holding small harness connector to motor, then dis]connect both motor harness connectors from motor.

g. Using a magic marker, outline the washer on the front and rear adjusting bolt holding motor to bracket so the belt can be tightened to the same location.

h. Use a 6 inch piece of 2x4 to support motor. Grasp the metal rod with a locking pliers and remove four bolts and washers holding motor to motor bracket. Refer to *Figure 17* and remove motor out through front of washer.

Motor Installation –

a. Place new motor into washer and allow motor to rest on washer base.

b. Reconnect harness connector to new motor. Refer to *Figure 17*.

c. Install new wire tie holding small harness connector to motor frame. This is necessary to prevent future service calls.

d. Lift motor into position within the motor bracket and install the front pivot bolt and washer. Refer to *Figure 17*. Then install the rear pivot bolt and washer. Leave bolt snug, do not tighten.

e. Pivot motor up into motor bracket and install the front adjusting bolt and washer. Refer to *Figure 17*. Then install rear adjusting bolt and washer. Leave bolts snug.

NOTE: Locate the magic marker spot made earlier on the motor bracket. Pivot motor so front adjusting bolt and washer are in this spot and tighten both front and rear adjusting bolts. Then tighten both pivot bolts.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

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f. Place belt on motor pulley, then carefully run belt on inner basket pulley while slowly turning pulley. Refer to *Figure 17*.

g. Open loading door, reach into inner basket and rotate inner basket several times by hand. Recheck belt alignment.

h. Pull down on motor to increase belt tension. Use a Burroughs belt gauge to obtain proper tension. Proper belt tension is obtained when belt can be deflected approximately 1/4 inch (6.35 mm) from normal position when moderate pressure 50 to 60 pounds (22.68 to 27.22 Kg) is applied to a point midway between pulleys. Refer to *Figure 17*.

i. After proper belt tension has been obtained, tighten belt adjusting bolts firmly, then tighten pivot bolts. Refer to *Figure 17*.

j. Reinstall lower front access panel. Refer to *Figure 8*.

k. Lower cabinet top and install hold-down screws.

l. **Front Control Washers –** Reinstall control panel.
Rear Control Washers – Reinstall front panel, door seal and dispenser drawer.

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WARNING

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- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

38. HEATING ELEMENT (Models equipped with heater)

a. While supporting lower access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.

b. Disconnect all wires from heating element.

c. Unscrew nut and lockwasher from center terminal of heating element assembly until nut is at end of threaded stud. Refer to *Figure 20*.

d. Using a brass or wood rod, tap the threaded stud in toward washer about 1/4 inch to loosen heating element.

e. Grasp heating element assembly by the terminals. Pull assembly and rubber washer through opening in outer tub front panel. Refer to *Figure 20*.

NOTE: All rubber from old element gasket must be removed prior to installing a new element.

NOTE: When installing new heating element assembly, element must be at the 6 o'clock position.

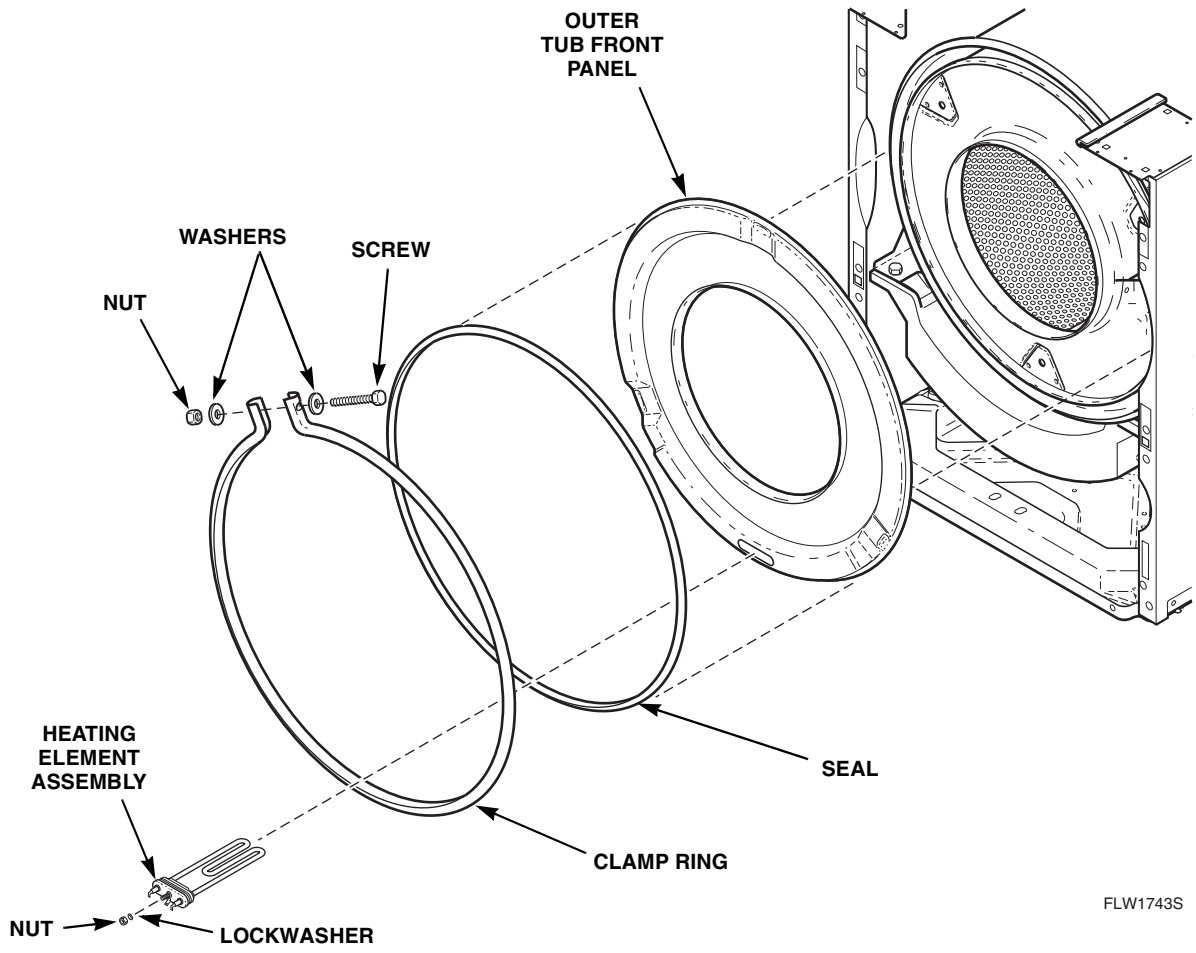

Figure 20

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

39. OUTER TUB FRONT PANEL

a. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.

b. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 9*.

c. **Front Control Washers –**

(1) Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.

(2) Remove screws holding cabinet top to control cabinet. Refer to *Figure 5*.

d. Open loading door, carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located at 6 o'clock position. Refer to *Figure 10*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

e. Grasp loading door seal lip. Refer to *Figure 11*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

f. Using a circular motion, pull seal up (*Figure 11*, Step 1), out (*Figure 11*, Step 2), and down (*Figure 11*, Step 3).

g. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 11*, Step 4.

NOTE: Door seal installation can be improved using water to soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position. When installing wire clamp ring to front panel, be careful not to overstretch tension spring.

h. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 13*. Remove front panel (with loading door attached) away from washer as far as wires permit.

i. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 18*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose.

j. **Rear Control Washers –** Remove two screws holding cabinet top to front flange of side panel. Refer to *Figure 12*.

k. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges. Refer to *Figure 4*.

NOTE: To avoid damage to hinges, be sure the support cabinet top with a small chain or something similar. Refer to *Figure 4*.

l. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 18*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 18*.

m. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 18*.

NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position.

n. Disconnect ground wire from outer tub front panel. Refer to *Figure 21*.

o. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 21*.

p. Remove rubber seal from outer tub front panel and discard seal.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

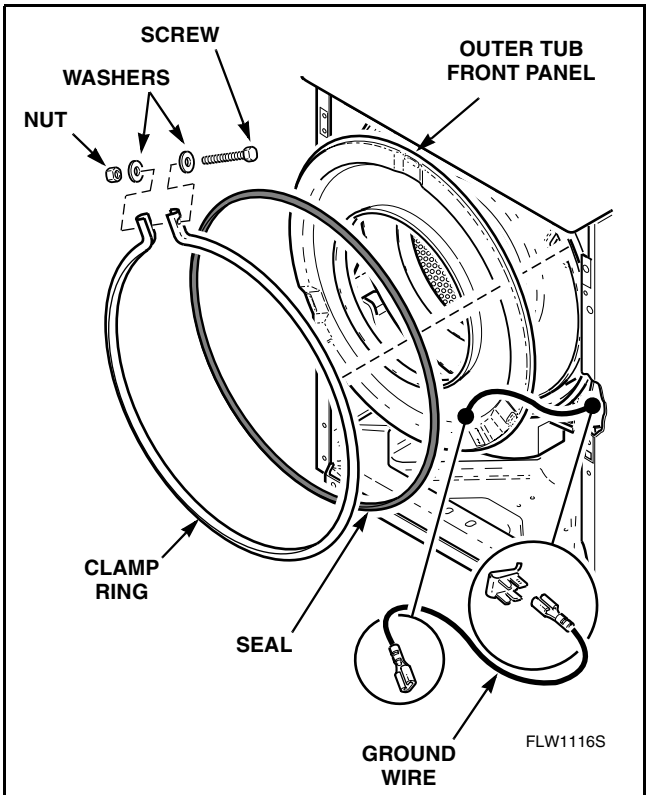

Figure 21

IMPORTANT: Always replace outer tub seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The "puffy" side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.

NOTE: Install clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure that no interference is encountered with side panel or the underside of the control cabinet or cabinet top. Tighten the clamp ring screw and nut until a spacing of one inch is achieved at the clamp ring opening or until tight.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

40. INNER BASKET PULLEY

a. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.

b. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 9*.

c. **Front Control Washer –**

(1) Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.

(2) Remove screws holding cabinet top to control cabinet. Refer to *Figure 5*.

d. Open loading door, carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is located at 6 o'clock position. Refer to *Figure 10*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

e. Grasp loading door seal lip. Refer to *Figure 11*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

f. Using a circular motion, pull seal up (*Figure 11*, Step 1), out (*Figure 11*, Step 2), and down (*Figure 11*, Step 3).

g. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 11*, Step 4.

NOTE: Door seal installation can be improved using water to soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position. When installing wire clamp ring to front panel, be careful not to overstretch tension spring.

h. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 13*. Remove front panel (with loading door attached) away from washer as far as wires permit.

i. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 18*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose. Refer to *Figure 18*.

j. **Rear Control Washers –** Remove two screws holding cabinet top to front flange of side panels. Refer to *Figure 12*.

k. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid hinge damage, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 4*.

l. Run belt off pulley while slowly turning pulley. Refer to *Figure 17*.

m. Remove belt from motor shaft.

n. Remove cap screw (left hand thread) lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 25*.

NOTE: Cap screw can be accessed through hole in rear panel by removing hole plug. Refer to *Figure 25*.

o. Remove pulley from shaft.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation. Use a thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

p. After installing belt, adjust belt tension as follows:
   (1) Working through the access door opening, place a locking pliers on the metal rod and loosen the two adjusting bolts. Refer to *Figure 17*. Repeat procedure to loosen the two pivot bolts. Refer to *Figure 17*.
   (2) Pull down on motor to increase belt tension. Use a Burroughs belt gauge to obtain proper tension. Proper belt tension is obtained when belt can be deflected approximately 1/4 inch (6.35 mm) from normal position when moderate pressure 50 to 60 pounds (22.68 to 27.22 Kg) is applied to a point midway between pulleys. Refer to *Figure 17*.
   (3) After proper belt tension has been obtained, tighten belt adjusting bolts firmly, then tighten pivot bolts. Refer to *Figure 17*.

41. INNER BASKET ASSEMBLY
Inner Basket Removal –

a. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.
b. Using the special tool, No. 318P4, remove dispenser drawer. Refer to *Figure 9*.
c. **Front Control Washers –**
   (1) Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.
   (2) Remove screws holding cabinet top to control cabinet. Refer to *Figure 5*.
d. Open loading door. Carefully remove wire clamp ring from groove with small flat blade screwdriver. Spring is in 6 o'clock position. Refer to *Figure 10*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

e. Grasp loading door seal lip. Refer to *Figure 11*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

f. Using a circular motion, pull seal up (*Figure 11*, Step 1), out (*Figure 11*, Step 2), and down (*Figure 11*, Step 3).
g. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 11*, Step 4.
h. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 13*. Remove front panel (with loading door attached) away from washer as far as wires permit.
i. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 18*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose. Refer to *Figure 18*.

j. **Rear Control Washers –** Remove two screws holding cabinet top to front flange of side panels. Refer to *Figure 12*.
k. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges. Refer to *Figure 4*.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 4*.

l. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 18*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 18*.

m. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 18*.

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

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NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position.

n. Disconnect ground wire from outer tub front panel. Refer to *Figure 21*.
o. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 21*.
p. Remove rubber seal from outer tub front panel and discard seal.

IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The "puffy" side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.

NOTE: Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure that no interference is encountered with side panel or the underside of the control cabinet or cabinet top. Tighten the clamp ring screw and nut until a spacing of one inch is achieved at the clamp ring opening or until tight.

q. Run belt off pulley while slowly turning pulley. Refer to *Figure 17*.
r. Remove belt from motor shaft.
s. Remove cap screw (left hand thread), lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 25*.

NOTE: Cap screw can be accessed through hole in rear panel by removing hole plug. Refer to *Figure 25*.

t. Remove pulley front shaft.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation. Use a thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

u. After installing belt, adjust belt tension per *Paragraph 46*.
v. Carefully remove inner basket out through front of washer.

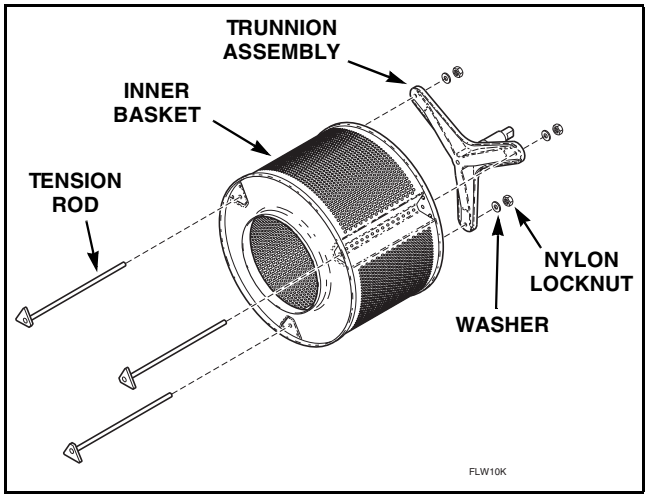

Figure 22

Installing 800749P Trunnion Kit or 800198P Inner Basket Kit

a. Remove nuts, washers and tension rods holding trunnion to inner basket. Refer to *Figure 22*.
b. If using existing trunnion, clean out old Loctite from pulley bolt threads using a 3/8-24 UNF Left Hand Tap.
c. Dip threads of three new tension rods into lightweight oil.
d. Insert tension rods into inner basket. Refer to *Figure 22*. Position each rod so the rounded corner of triangular head faces the center of inner basket. Refer to *Figure 23*.
e. Position trunnion assembly through rods and onto inner basket.
f. Attach three washers and three new nylon locknuts onto rods. Leave the nuts loose.

IMPORTANT: Always use new nylon locknuts.

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- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

g. Carefully center trunnion on basket and torque nuts to about 50 inch-pounds.
h. Install inner basket/trunnion assembly into washer. Do not bolt down at this time.

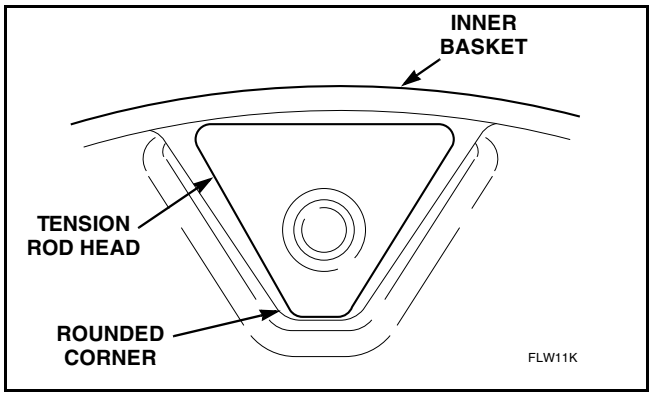

Figure 23

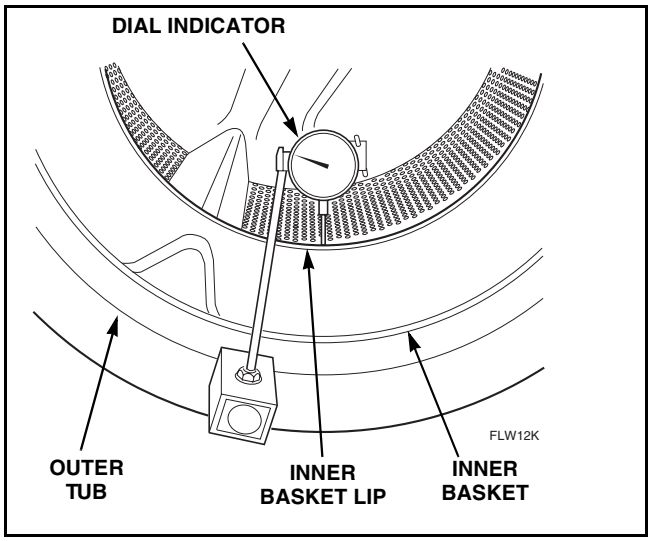

Figure 24

i. Check for concentricity/roundness of assembly. Use a dial indicator to check that concentricity at the inside edge of inner basket lip is a maximum of .05 inch TIR (Total Indicator Runout). Refer to *Figure 24*. If concentricity is not within .05 inch, remove assembly from washer and adjust location of trunnion. Repeat until concentricity is within .05 inch.
j. Remove inner basket/trunnion assembly from washer and evenly torque three nuts to 200 ± 10 inch-pounds.
k. Recheck that concentricity is still within .05 inch.

Inner Basket Installion –

a. Apply No. 27604P Anti-Seize Compound to the area of the trunnion shaft that will be contacting the front and rear bearings. Refer to *Figure 26*.
b. Apply a film of grease to area of shaft that will be contacting the bearing housing seal. Refer to *Figure 26*. Make sure seal lips also are packed with grease. Refer to *Figure 26*.
c. Install inner basket assembly by pushing all the way into outer tub.
d. Install pulley, flat washer, lockwasher and left hand thread screw. Refer to *Figure 25*.

IMPORTANT: When installing pulley, always use a new cap screw (included in kit) to prevent screw from loosening during operation. Use a thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

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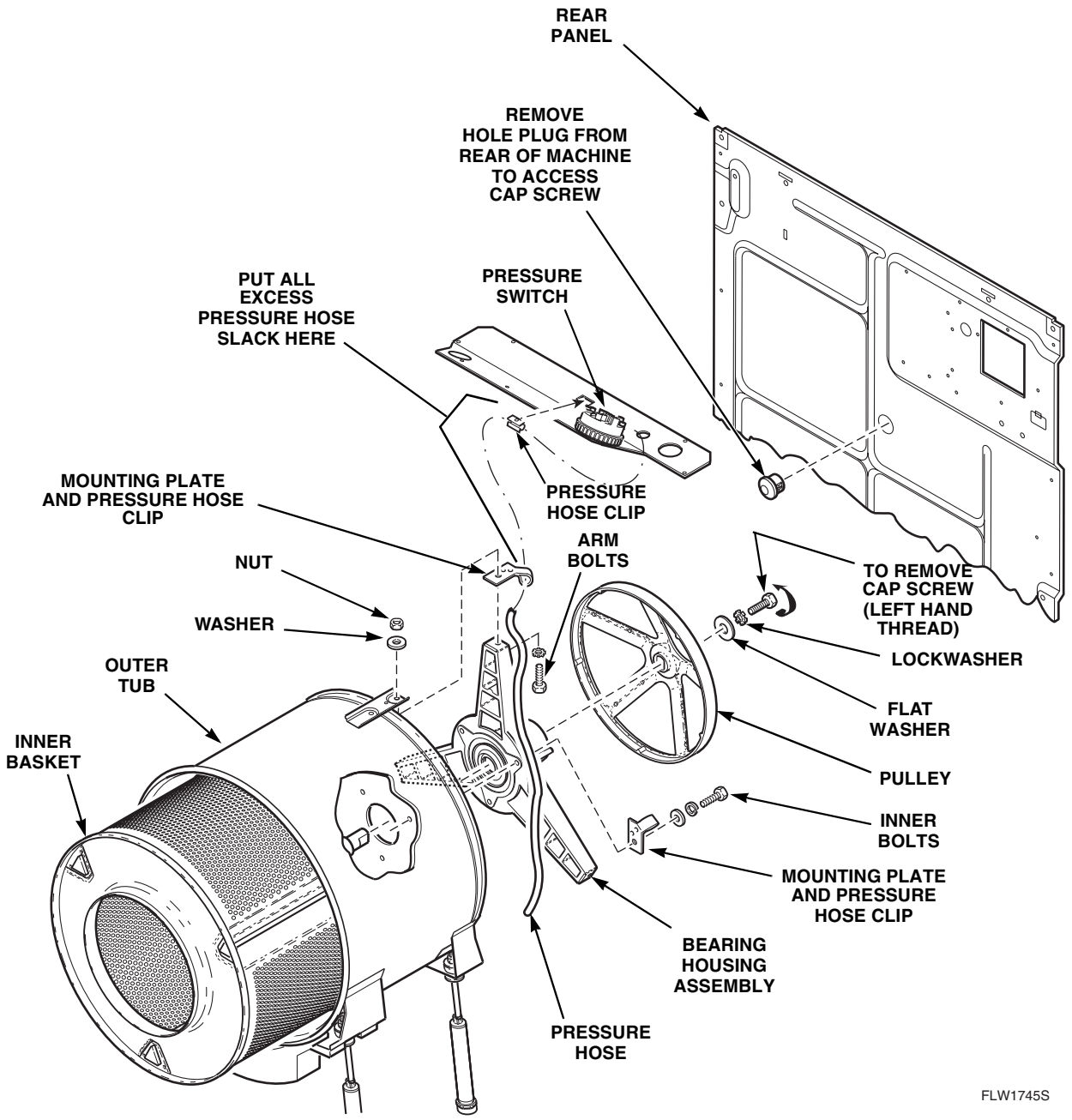

FRONT CONTROL WASHER ILLUSTRATED

Figure 25

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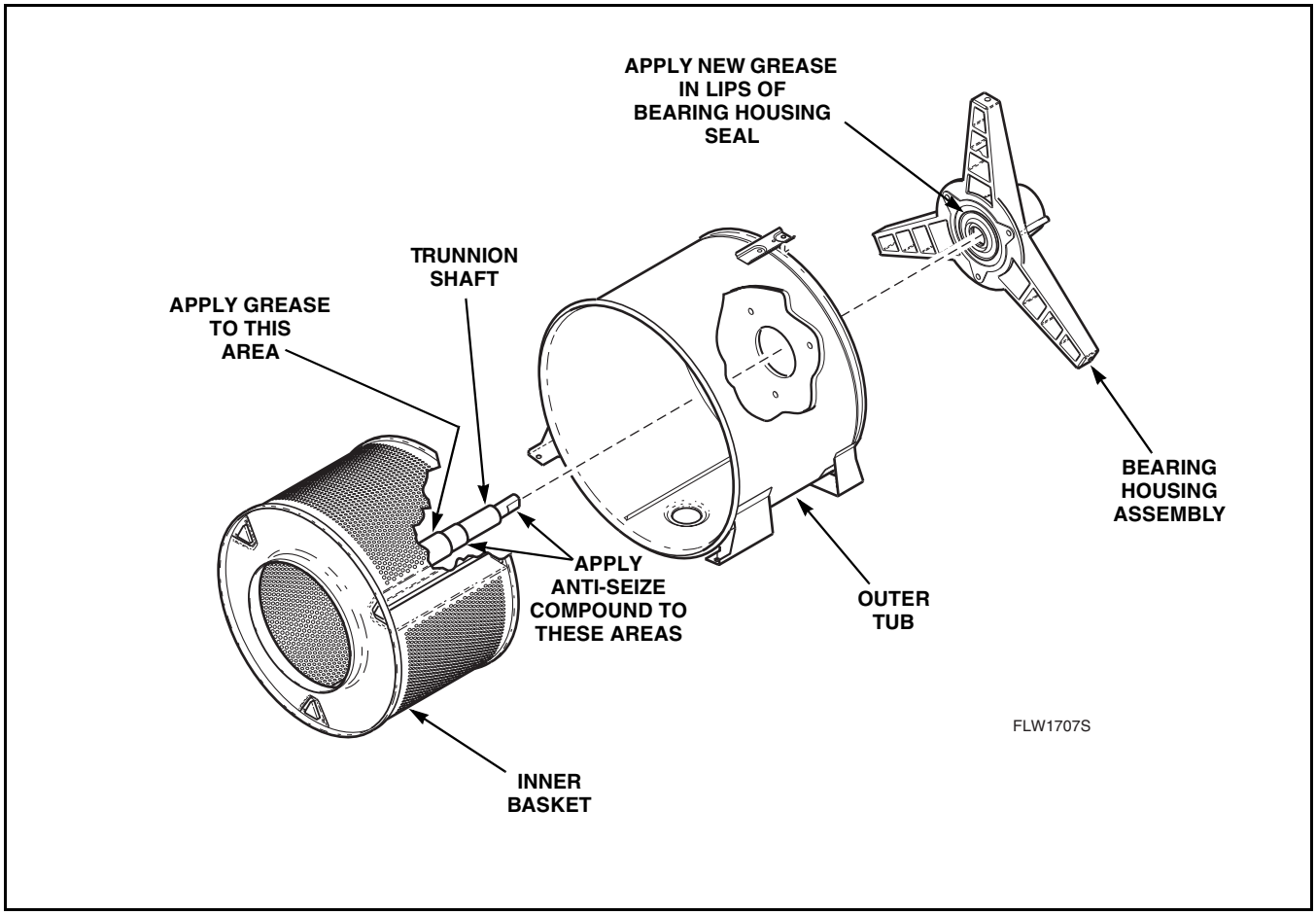

Figure 26

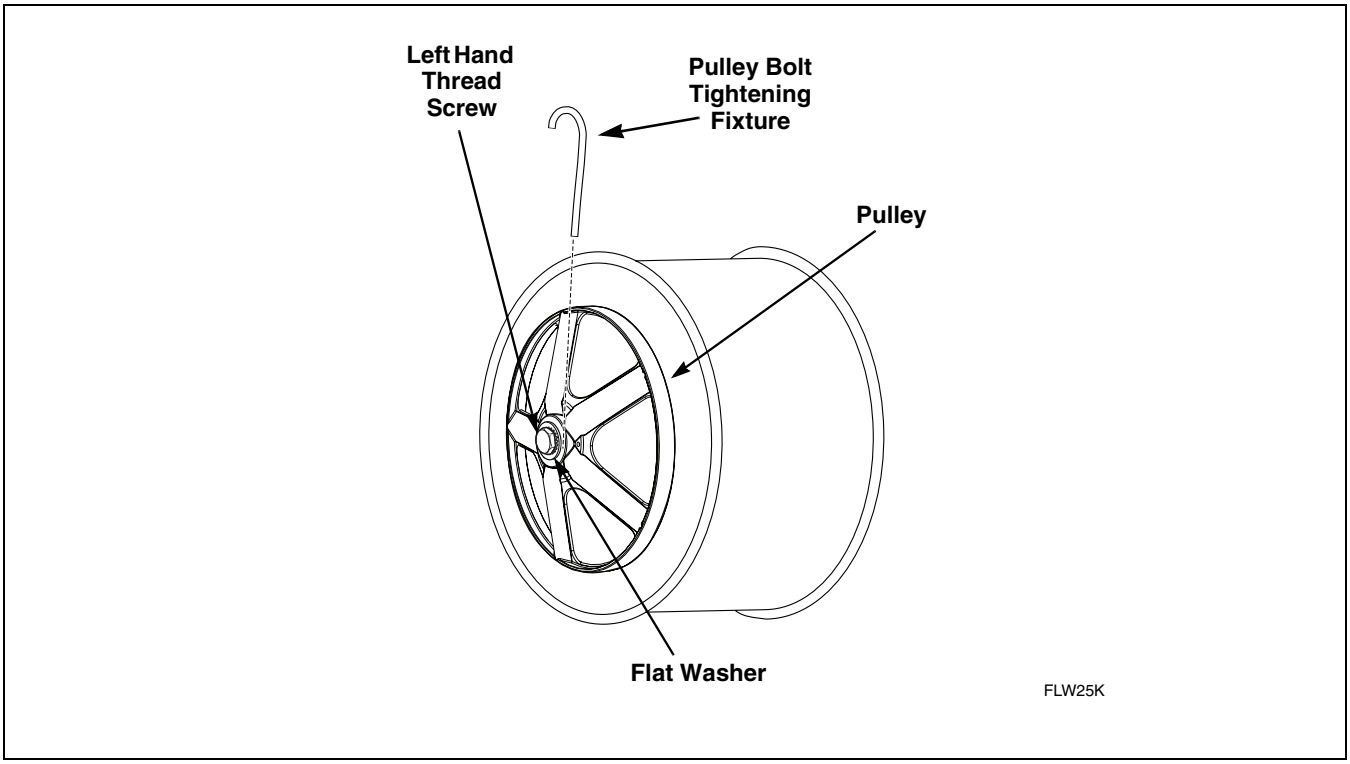

Figure 27

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

e. Unscrew left hand thread screw half way.
f. Install pulley bolt tightening fixture between the flat washer and the pulley. Refer to *Figure 27*.
g. Tighten left hand thread screw until washer is against pulley bolt tightening fixture.
h. Loosen screw about one half turn to free fixture.
i. Remove pulley bolt tightening fixture.
j. From front of washer, pull inner basket forward as far as possible. Flat washer should be against pulley.
k. Push inner basket back into outer tub as far as possible.
l. Tighten left hand thread screw. Be careful not to push the trunnion shaft forward while tightening the screw.

NOTE: Torque new left hand thread screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

42. BEARING HOUSING
Bearing Housing Removal –

a. While supporting lower front access panel, remove two screws from bottom edge of panel and remove panel. Refer to *Figure 8*.
b. Use special tool, No. 318P4, and remove dispenser drawer.Refer to *Figure 9*.
c. **Front Control Washers –**
   (1) Remove screws holding control panel to control cabinet. Refer to *Figure 5*. Remove panel.
   (2) Remove screws holding cabinet top to control cabinet. Refer to *Figure 5*.
d. Open loading door. Carefully remove wire clamp ring from groove with a small flat blade screwdriver. Spring is in 6 o'clock position. Refer to *Figure 10*.

NOTE: To avoid damage to spring, use screwdriver on wire clamp ring to right or left of spring.

e. Grasp loading door seal lip. Refer to *Figure 11*, Step 1.

NOTE: To avoid damage to door seal, DO NOT use pliers or sharp objects to grasp the door seal lip. If lip is damaged, seal will leak.

f. Using a circular motion, pull seal up (*Figure 11*, Step 1), out (*Figure 11*, Step 2), and down (*Figure 11*, Step 3).
g. When seal releases from lip of front panel, pull out and remove the seal from front panel around door opening. Refer to *Figure 11*, Step 4.
h. While supporting the front panel assembly, remove the two bottom front corner screws. Refer to *Figure 13*. Remove front panel (with loading door attached) away from washer as far as wires permit.

NOTE: Refer to wiring diagram when rewiring door switch.

i. Unplug wire harness from both the door latch switch and from the door switch. Refer to *Figure 18*. Remove clips holding wire harness and door seal hose along top flange of front panel and remove front panel. Refer to *Figure 18*.

NOTE: The large wire clip holds both the wire harnesses and the door seal hose. Refer to *Figure 18*.

j. **Rear Control Washers –** Remove two screws holding cabinet top to front flange of side panels. Refer to *Figure 12*.
k. If area or space permits, lift cabinet top to a vertical position by hinging it on the rear hinges.

NOTE: To avoid damage to hinges, be sure to support cabinet top with a small chain or something similar. Refer to *Figure 4*.

l. Loosen hose clamp and remove dispenser valve-to-door seal hose connection at the dispenser. Refer to *Figure 18*.

IMPORTANT: When installing door seal hose, pull hose tie tight to prevent damage. Refer to *Figure 18*.

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- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

W485

m. Loosen large clamp holding door seal to front of outer tub. Carefully pull seal off front lip of outer tub front panel and remove door seal and hose. Refer to *Figure 18*.

NOTE: Door seal installation can be improved using water or soap solution to work seal around circumference of loading door opening. Be sure to install seal with the tab in the 12 o'clock position.

n. Disconnect ground wire from outer tub front panel. Refer to *Figure 21*.
o. Remove nut, washers and screw holding clamp ring to outer tub front panel. Refer to *Figure 21*.
p. Remove rubber seal from outer tub front panel and discard seal.

IMPORTANT: Always replace seal with a new seal. Spray or apply a mixture of diluted laundry detergent to assist in installation of new seal. The "puffy" side of seal should be installed to the inside. For best results, tap clamp ring all around while tightening screw and nut.

NOTE: Install clamp screw with threads and nut facing downward. Refer to *Figure 21*. Install clamp screw with threads and nut facing downward. Refer to *Figure 21*. Install metal clamp ring by placing clamp ring opening at approximately the 10 o'clock position to ensure no interference is encountered with side panel or the underside of the control cabinet or cabinet top. Tighten screw and nut until a spacing of one inch is achieved at the clamp ring opening. Tap clamp ring all around while tightening the screw and nut.

q. Run belt off pulley while slowly turning pulley. Refer to *Figure 17*.
r. Remove belt from motor shaft.
s. Remove cap screw (left hand thread), lockwasher and flat washer holding pulley to inner basket shaft. Refer to *Figure 25*.

NOTE: Cap screw can be accessed through hole in rear panel by removing hole plug. Refer to *Figure 25*.

t. Remove pulley from shaft.

IMPORTANT: When installing pulley, always use a new cap screw to prevent screw from loosening during operation. Use a thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

NOTE: When installing new cap screw, apply a thread locking compound to screw threads and torque new cap screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

u. After installing belt, adjust belt tension per *Paragraph 46*.
v. Carefully remove inner basket out through front of washer.
w. Remove three screws holding bearing housing arms to outer tub.

IMPORTANT: Prior to disassembly, note the position of the pressure hose, hose clips and mounting plate so parts can be reinstalled in the same position. Refer to *Figure 25*.

x. While supporting bearing housing, remove three inner screws holding bearing housing to rear of outer tub. Refer to *Figure 25*.

Bearing Housing Installation –

NOTE: When installing the bearing housing, be sure to route the pressure hose under the right arm and attach hose and pressure hose clip to mounting plate. Refer to *Figure 25*. Then route pressure hose up to the hose mounting plate on the top arm. Refer to *Figure 25*. Make sure there is no slack between these two points. All excess pressure hose slack must be collected between the top hose mounting plate on the bearing housing arm and the pressure hose clip. Refer to *Figure 25*.

IMPORTANT: The three arm bolts should always be tightened first and torqued to 275 inch pounds (31.46 Nm). Then tighten the three inner bolts and torque to 150 inch pounds (17.16 Nm).

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WARNING

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- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**
- **Motor not grounded! Disconnect electric power before servicing motor.**

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NOTE: If a bearing failure should occur, a new bearing housing assembly should always be used. The bearings and seal are not serviceable parts. Make sure the new bearing housing seal is packed with lubrication in all grooves before installation. If not, lubricate seal.

a. Apply No. 27604P Anti-Seize Compound to the area of the trunnion shaft that will be contacting the front and rear bearings. Refer to *Figure 26*.
b. Apply a film of grease to area of shaft that will be contacting the bearing housing seal. Refer to *Figure 26*. Make sure seal lips also are packed with grease. Refer to *Figure 26*.

IMPORTANT: When installing inner basket, the following steps must be taken to ensure that the seal is properly orientated:

c. Install inner basket assembly by pushing all the way into outer tub.
d. Install pulley, flat washer, lockwasher and left hand thread screw. Refer to *Figure 25*.

IMPORTANT: When installing pulley, always use a new cap screw (included in kit) to prevent screw from loosening during operation. Use a thread tap to clean old Loctite out of pulley screw receiving hole before installing new screw. This ensures that inner basket and pulley properly seat.

e. Unscrew left hand thread screw half way.
f. Install pulley bolt tightening fixture between the flat washer and the pulley. Refer to *Figure 27*.
g. Tighten left hand thread screw until washer is against pulley bolt tightening fixture.
h. Loosen screw about one half turn to free fixture.
i. Remove pulley bolt tightening fixture.
j. From front of washer, pull inner basket forward as far as possible. Flat washer should be against pulley.
k. Push inner basket back into outer tub as far as possible.
l. Tighten left hand thread screw. Be careful not to push the trunnion shaft forward while tightening the screw.

NOTE: Torque new left hand thread screw to 240 minimum to 260 maximum inch pounds (27.5 to 29.7 Nm).

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Section 6
Adjustments

WARNING

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- **Motor not grounded! Disconnect electric power before servicing motor.**

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IMPORTANT: When reference is made to directions (right or left) in this manual, it is from operator's position facing front of washer.

43. CABINET LEVELING LEGS

a. Place washer in position on a clean, firm and reasonably level floor. Installing the washer on any type of carpeting is not recommended.

b. Loosen locknuts and adjust the leveling legs until the washer **does not rock**. Refer to *Figure 28*.

NOTE: Level must rest on raised portion of top panel. Refer to *Figure 28*.

c. Tighten the locknuts securely against the washer base. If the locknuts are not tight, washer will move out of position during operation.

CAUTION

DO NOT slide washer across floor if the leveling legs have been extended, as legs and base could become damaged.

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CAUTION

Use of the dispenser drawer or washer door as a handle in the transportation of the washer may cause damage to the dispenser or door.

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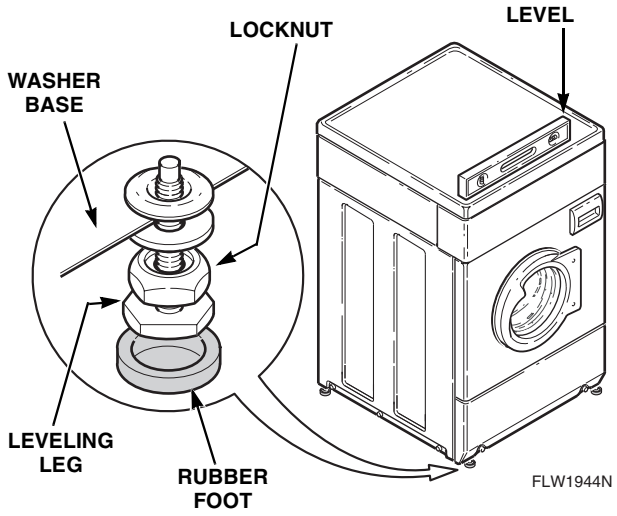
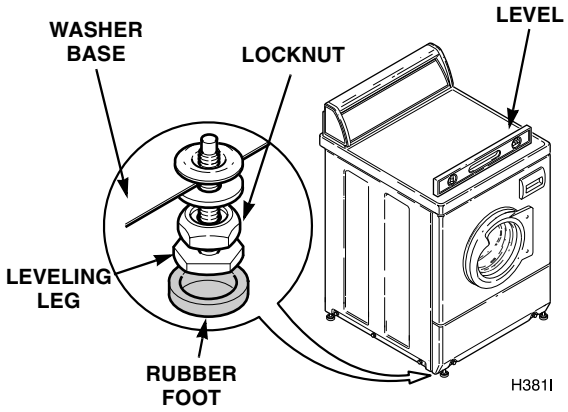
d. Place rubber feet on all four leveling legs. Refer to *Figure 28*.



FRONT CONTROL WASHERS



REAR CONTROL WASHERS

Figure 28

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
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- **Motor not grounded! Disconnect electric power before servicing motor.**

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44. LOADING DOOR

a. Open loading door.

b. Remove door bezel to gain access to nuts. Refer to *Figure 29*.

c. The loading door can be adjusted up or down somewhat by loosening screws holding door to hinge, then raise or lower door before retightening screws. Refer to *Figure 29*.

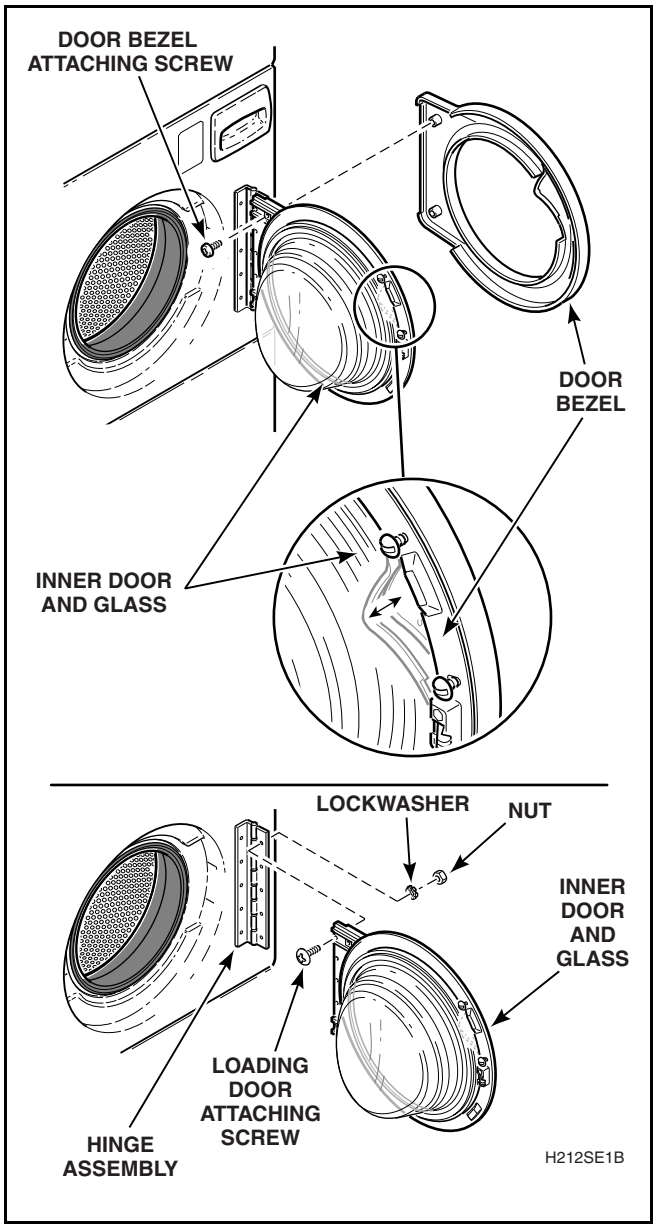

Figure 29

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WARNING

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45. DOOR CATCH

NOTE: When repairing a broken or inoperative No. 685430 Door Catch, proceed as follows:

a. Remove door bezel. Refer to *Figure 29*
b. Remove two screws and nuts holding door catch to door and remove door catch.
c. Install new door catch and tighten screws and nuts to the point of being snug.
d. Adjust door catch so the outside edge is aligned with the edge of the latch. Refer to *Figure 30*.
e. Visually check that the door catch properly engages the funnel of the door latch/switch assembly. Refer to *Figure 30*.
f. Recheck the alignment in Step d. Adjust if needed.
g. Torque the two nuts to approximately 30 inch pounds (3.4 Nm).
h. Reinstall door bezel.

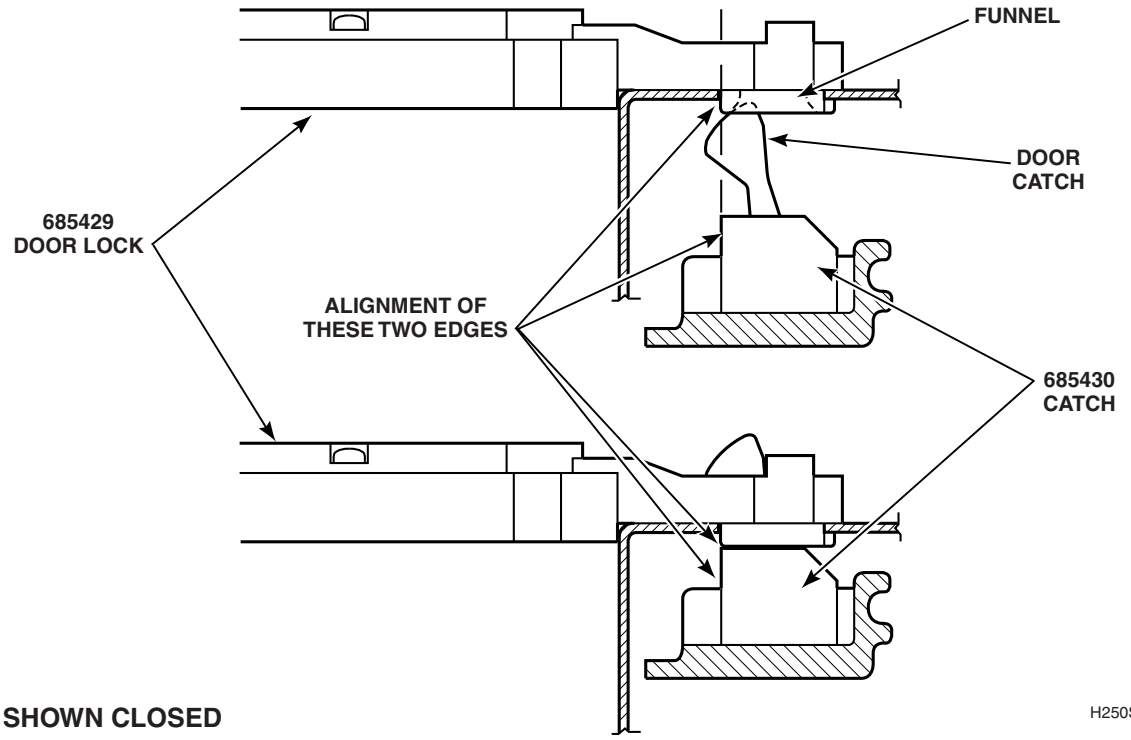

Figure 30

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WARNING

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- **Motor not grounded! Disconnect electric power before servicing motor.**

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46. MOTOR BELT TENSION

NOTE: Belt adjustment procedures are done through front of washer, however, as an option, washer can be moved from its location and belt adjustment can be done through lower access panel opening at rear of washer.

a. While supporting lower front access panel, remove two screws from bottom edge of access panel and remove panel. Refer to *Figure 8*.
b. Working through the lower front access door opening, place a locking pliers on the metal rod and loosen the two adjusting bolts. Refer to *Figure 31*. Repeat procedure to loosen the two pivot bolts. Refer to *Figure 31*.
c. Pull down on motor to increase belt tension. Use a Burroughs belt gauge to obtain proper tension. Proper belt tension is obtained when belt can be deflected approximately 1/4 inch (6.35 mm) from normal position when moderate pressure 50 to 60 pounds (22.68 to 27.22 Kg) is applied to a point midway between pulleys. Refer to *Figure 31*.
d. After proper belt tension has been obtained, tighten belt adjusting bolts firmly, then tighten pivot bolts. Refer to *Figure 31*.

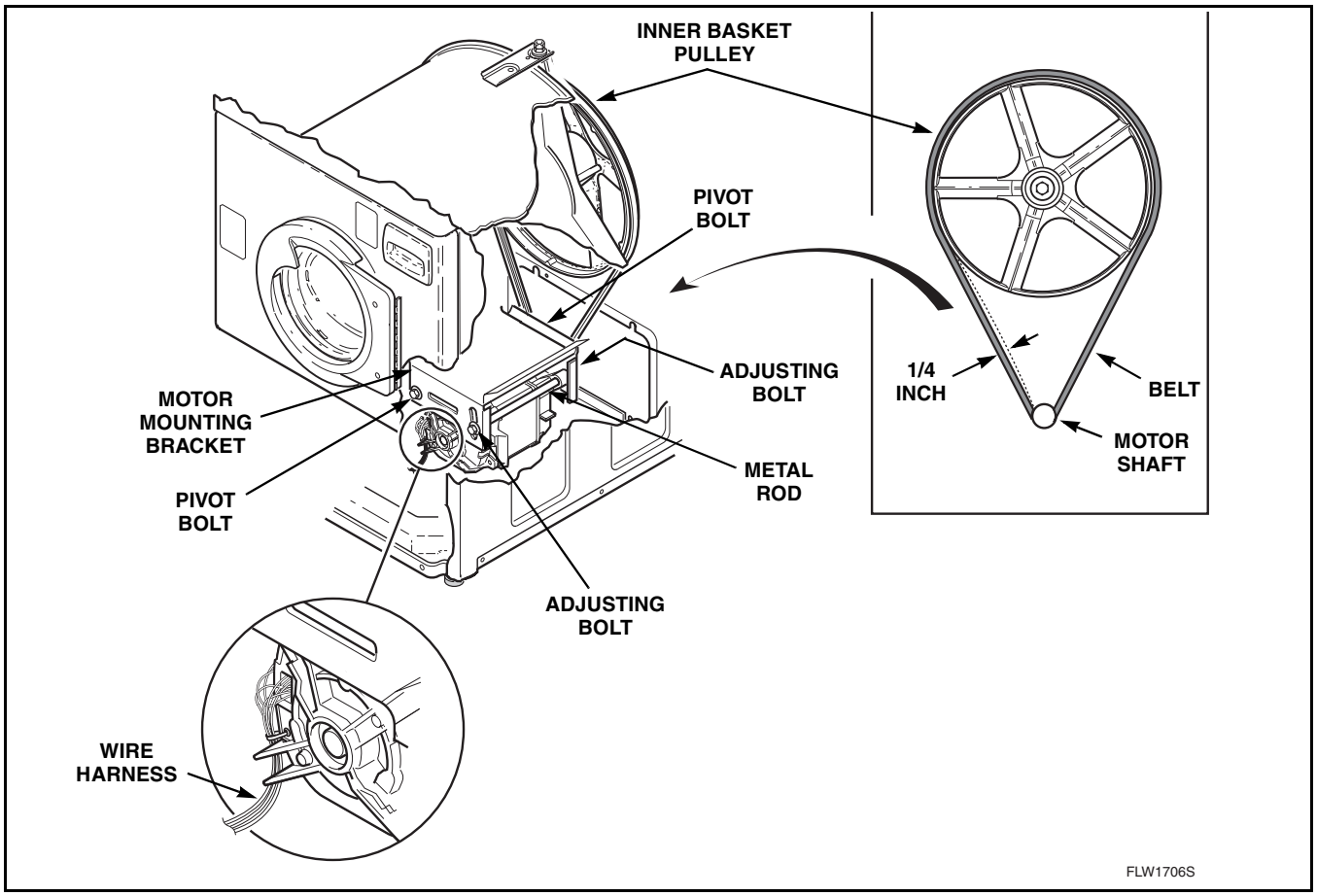

Figure 31

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WARNING

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- **Motor not grounded! Disconnect electric power before servicing motor.**

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47. SHIPPING BRACES

All frontload washers, when shipped from the factory are equipped with two factory installed shipping supports. DO NOT remove this shipping material until after washer is placed in its final installed position. Refer to *Figure 32*.

IMPORTANT: DO NOT tip or move washer once these supports have been removed. Removal of supports prior to final installation may cause damage to the shock absorbers and will VOID the product warranty.

NOTE: Shipping supports MUST be kept for future re-positioning or moving of the washer.

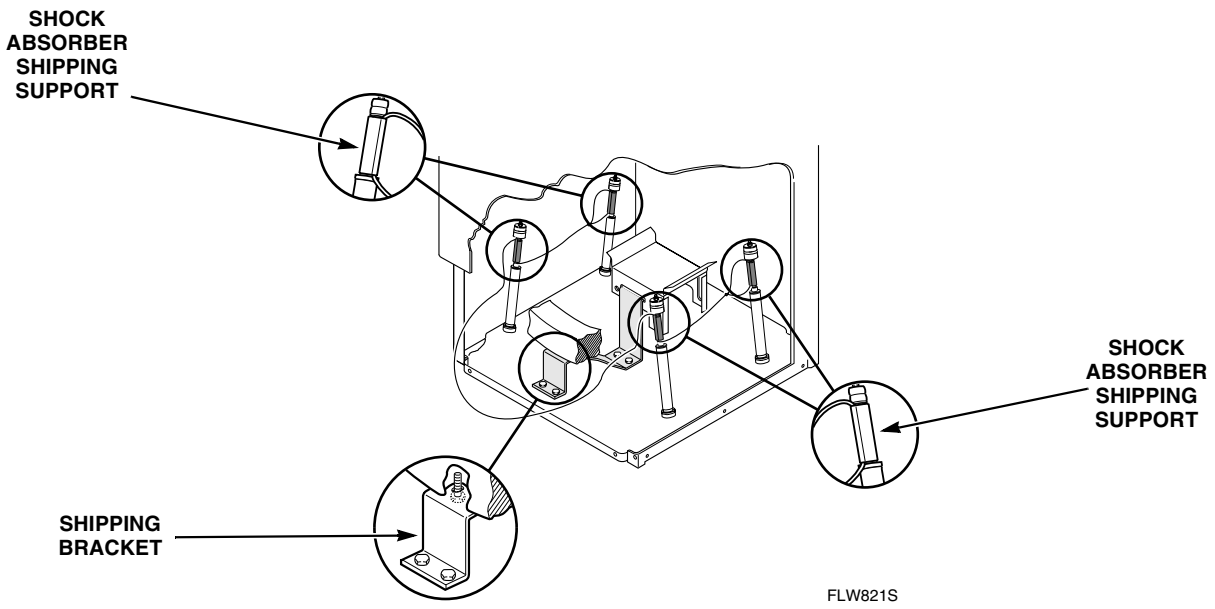

Figure 32

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Notes

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